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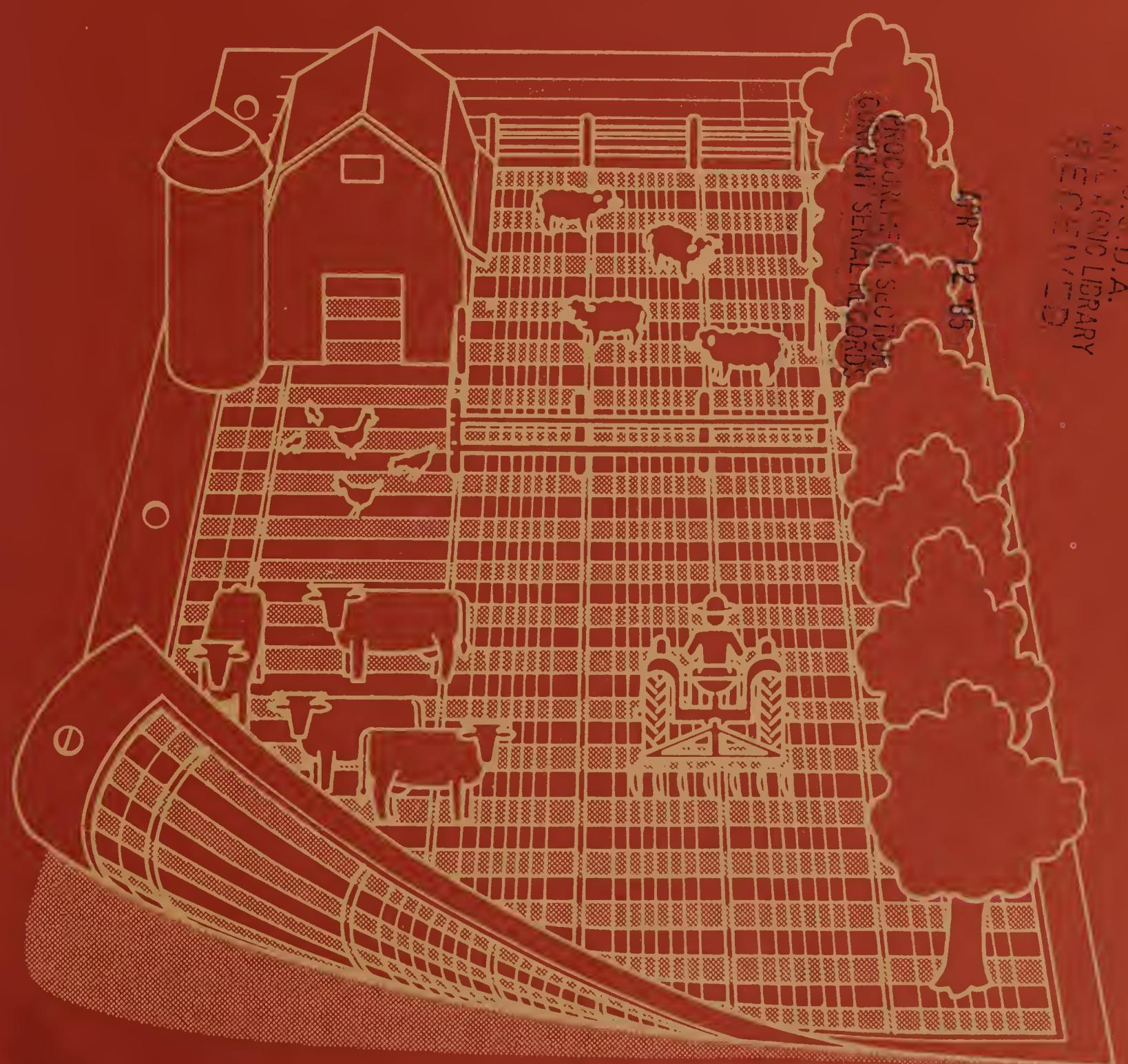
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Economic Indicators of the Farm Sector

Costs of Production, 1983



ABSTRACT

Average costs per acre of producing the major crops dropped about 1 percent from 1982 to 1983, mainly because of lower prices for petroleum-based products and fertilizers. Production costs for cattle, hogs, and sheep rose an average 4.4 percent, mainly because of higher feed costs. Milk production costs per hundredweight increased 6.9 percent. Reduced acreage from the payment-in-kind program and lower yields from drought depressed 1983 farm income. On a per-acre basis, however, crop enterprises improved overall earnings in 1983 compared with 1982, but livestock farms and dairies saw returns sag again.

Keywords: Costs of production, costs and returns.

SALES INFORMATION

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PREFACE

The Economic Research Service (ERS) revised the format and some estimation procedures to calculate the costs of producing major U.S. agricultural commodities from 1980-82 and published them last year. These procedures and associated format more accurately reflect the financial well-being of today's farm sector.

The major addition to the budget is a cash receipts section. In addition, a cash expenses section appears separately from a total economic costs section. This allows a more complete picture of the selected enterprise's financial situation from both shortrun (cash flows) and longrun (economic costs) perspectives compared with other enterprises and across regions.

This report is one of five in the annual Economic Indicators of the Farm Sector series. Other reports are Income and Balance Sheet Statistics, State Income and Balance Sheet Statistics, Production and Efficiency Statistics, and Farm Sector Review.

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	<u>Page</u>
CONTENTS	
HIGHLIGHTS	iii
LIST OF TABLES	v
INTRODUCTION	1
1983 COSTS OF PRODUCTION	1
Crops	2
Livestock	8
STRUCTURE OF THE ACCOUNTS	13
Cash Receipts and Cash Expenses	13
Economic Costs	13
PROCEDURE	15
METHODS AND USE OF DATA FOR ESTIMATING COSTS AND RETURNS ..	16
Cash Receipts	16
Cash Expenses	17
Economic Costs	22
USING COST-OF-PRODUCTION DATA	23
TABLES	36

HIGHLIGHTS

Moderating inflation helped ease the costs of crop production in 1983. The consumer price index increased 3.2 percent in 1983 down from a 6.4-percent increase in 1982. Farmers paid 2.7 percent more for farm production items and, overall, received 6.6 percent more for their crops but 2.1 percent less for their livestock.

Returns per acre in 1983, a standard comparison figure for cost-of-production crop estimates, improved dramatically over 1982 for most crops. For most livestock enterprises, however, higher feed costs and lower product prices led to reduced returns in 1983. Feed prices increased 15 to 20 percent while prices of most other input items rose only 5 to 6 percent; fuel and fertilizer prices declined.

Reduced acreage from the PIK program and lower yields from the drought caused net farm income to fall in 1983. But on a per-acre basis, U.S. crop enterprises had a better year than in 1982:

CORN receipts rose 5 percent and nearly matched the 1981 level. Cash expenses declined mainly because of lower fuel, fertilizer, and drying costs. The result: a net increase in returns to owned inputs from \$50 in 1982 to \$68 in 1983.....GRAIN SORGHUM yields fell 21 percent, but harvest-month prices rose 36 percent resulting in a 7-percent increase in total cash receipts. Net cash returns were still negative but 50 percent higher than in 1982.....BARLEY was one of the few crops with a decrease in cash receipts. However, the decrease of only \$1 per acre combined with lower input costs to trigger a \$1 increase in returns to owned inputs.....OATS had an 8-percent decrease in receipts (from \$107 in 1982 to \$98 in 1983). Receipts less cash expenses and capital replacement fell to less than half the 1982 level, and net returns to owned inputs dropped from \$28 to \$20.....WHEAT varieties reacted differently to the drought. Winter wheat and white wheat had sizable yield increases and caused average yields for all wheat to increase 14 percent from 1982. Combined with a 3-percent price increase, receipts increased from \$112 to \$132 and net returns nearly doubled.....RICE yields fell slightly, but a large price increase pushed up receipts by 12 percent. Returns improved but fell far short of the 1981 level.....SOYBEAN receipts surged over \$200 per acre, the best return in 4 years. All returns were positive including a residual to management and risk; white wheat, peanuts, and sugar beets were the only other crops with similar results.....PEANUT receipts fell for the third year in a row, a result of both lower yields and declining product price. However, all returns remained positive so peanut growers remained in good shape.....COTTON receipts for lint fell 3 percent to \$309 per acre. Cottonseed prices, however, increased 85 percent so total cash receipts increased to \$374 per acre. Receipts less cash expenses and replacement were good at \$42 and returns to owned inputs averaged \$98 per acre.

The 1983 livestock and dairy enterprises showed continued declines in returns:

CATTLE FEEDERS struggled under a 33-percent increase in grain prices and slightly higher costs for feeder livestock. After a slightly positive year in 1982, net returns to owned inputs failed to break even by more than \$2 per cwt.....COW-CALF expenses, including capital replacement, increased less than \$1 per cow and receipts fell \$8, so returns fell \$10 to \$15 per cow for herds of fewer than 500 cows and \$10 to \$18 for larger operations. Lower receipts followed declining prices for cull cows and for all classes of feeder cattle except steer calves. Higher feed costs were offset by lower production costs for hay and grazing.....HOG producers increased production over 6 percent in 1983, but slaughter hog prices fell 15 percent while cash operating costs increased 15 percent.....SHEEP returns remained in about the same position as in 1982. Receipts less cash expenses and replacement decreased 28 cents per ewe while net returns to owned inputs fell \$1.....MILK receipts increased 2 cents per cwt. Returns fell less than \$1 because of the higher feed costs.

This report gives the average, weighted costs and returns for surveyed producers of the commodity in a specific region and the U.S. average. The costs, expenses, and returns for an individual farming operation may differ significantly from the regional or national figures for a variety of reasons. Although the difference between production costs and receipts determines the profitability and performance of the enterprise, any one residual figure for a particular enterprise is not an adequate indicator of the well-being of a multiple enterprise farm such as a farm which grows crops and raises livestock. The analysis of the economic well-being of a farm can only be derived from additional information regarding the number and combination of enterprises, other income sources, expenses, and goals of the particular farm in question. This report does not present this additional information.

1. U.S. corn production costs, 1981-83	36
2. Corn production costs, Lake States and Corn Belt, 1981-83	37
3. Corn production costs, Northeast, 1981-83	38
4. Corn production costs, Northern Plains, 1981-83 ..	39
5. Corn production costs, Southeast, 1981-83	40
6. Corn production costs, Southwest, 1981-83	41
7. U.S. sorghum production costs, 1981-83	42
8. Sorghum production costs, Central Plains, 1981-83	43
9. Sorghum production costs, Southern Plains, 1981-83	44
10. Sorghum production costs, Southwest, 1981-83	45
11. U.S. barley production costs, 1981-83	46
12. Barley production costs, Northeast, 1981-83	47
13. Barley production costs, Northern Plains, 1981-83	48
14. Barley production costs, Northwest, 1981-83	49
15. Barley production costs, Southern Plains, 1981-83	50
16. Barley production costs, Southwest, 1981-83	51
17. U.S. oats production costs, 1981-83	52
18. Oats production costs, Lake States and Corn Belt, 1981-83	53
19. Oats production costs, Northeast, 1981-83	54
20. Oats production costs, Northern Plains, 1981-83 ..	55
21. U.S. wheat production costs, 1981-83	56
22. U.S. hard red winter wheat production costs, 1981-83	57
23. Hard red winter wheat production costs, Central Plains, 1981-83	58

Table

	<u>Page</u>
24. Hard red winter wheat production costs, Northern Plains, 1981-83	59
25. Hard red winter wheat production costs, Southern Plains, 1981-83	60
26. Hard red winter wheat production costs, Southwest, 1981-83	61
27. U.S. soft red winter wheat production costs, 1981-83	62
28. Soft red winter wheat production costs, Lake States and Corn Belt, 1981-83	63
29. Soft red winter wheat production costs, Northeast, 1981-83	64
30. Soft red winter wheat production costs, Southeast, 1981-83	65
31. U.S. hard red spring wheat production costs, 1981-83	66
32. U.S. durum wheat production costs, 1981-83	67
33. U.S. white wheat production costs, 1981-83	68
34. U.S. rice production costs, 1981-83	69
35. Rice production costs, Arkansas (non-Delta), 1981-83	70
36. Rice production costs, California, 1981-83	71
37. Rice production costs, Delta, 1981-83	72
38. Rice production costs, Gulf Coast, 1981-83	73
39. U.S. soybean production costs, 1981-83	74
40. Soybean production costs, Delta, 1981-83	75
41. Soybean production costs, Lake States and Corn Belt, 1981-83	76
42. Soybean production costs, Northern Plains, 1981-83	77
43. Soybean production costs, Southeast, 1981-83	78
44. U.S. sunflower production costs, 1981-83	79
45. U.S. peanut production costs, 1981-83	80

<u>Table</u>		<u>Page</u>
46. Peanut production costs, Southeast, 1981-83		81
47. Peanut production costs, Southern Plains, 1981-83		82
48. Peanut production costs, Virginia and North Carolina, 1981-83		83
49. U.S. flax production costs, 1981-83		84
50. U.S. cotton production costs, 1981-83		85
51. Cotton production costs, Delta, 1981-83		86
52. Cotton production costs, Southeast, 1981-83		87
53. Cotton production costs, Southern Plains, 1981-83		88
54. Cotton production costs, Southwest, 1981-83		89
55. U.S. sugar-beet production costs, 1981-83		90
56. Sugar-beet production costs, Michigan and Ohio, 1981-83		91
57. Sugar-beet production costs, Minnesota and North Dakota, 1981-83		92
58. Sugar-beet production costs, Kansas, Colorado, Nebraska, and southeastern Wyoming, 1981-83		93
59. Sugar-beet production costs, Texas and New Mexico, 1981-83		94
60. Sugar-beet production costs, Montana, north- western Wyoming, and southwestern North Dakota, 1981-83		95
61. Sugar-beet production costs, eastern Idaho, 1981-83		96
62. Sugar-beet production costs, western Idaho and Oregon, 1981-83		97
63. Sugar-beet production costs, California and Arizona, 1981-83		98
64. U.S. sugarcane production costs, 1981-83		99
65. Sugarcane production costs, Florida, 1981-83		100
66. Sugarcane production costs, Hawaii, 1981-83		101

Table

	<u>Page</u>
67. Sugarcane production costs, Louisiana, 1981-83 ...	102
68. Sugarcane production costs, Texas, 1981-83	103
69. U.S. fed cattle production costs, per cwt, all sizes, 1981-83	104
70. Fed cattle production costs, per cwt, all sizes, farmer feedlots, 1981-83	105
71. Fed cattle production costs, per cwt, all sizes, commercial feedlots, 1981-83	106
72. U.S. cow-calf production costs, per cow, all sizes, 1981-83	107
73. U.S. cow-calf production costs, per cow, fewer than 100 cows, 1981-83	108
74. U.S. cow-calf production costs, per cow, 100-499 cows, 1981-83	109
75. U.S. cow-calf production costs, per cow, more than 500 cows, 1981-83	110
76. Cow-calf production costs, per cow, all sizes, Great Plains, 1981-83	111
77. Cow-calf production costs, per cow, all sizes, North-Central, 1981-83	112
78. Cow-calf production costs, per cow, all sizes, South, 1981-83	113
79. Cow-calf production costs, per cow, all sizes, West, 1981-83	114
80. U.S. feeder pig production costs, per cwt, all sizes, 1981-83	115
81. U.S. feeder pig production costs, per cwt, 140 head, 1981-83	116
82. U.S. feeder pig production costs, per cwt, 300 head, 1981-83	117
83. U.S. feeder pig production costs, per cwt, 650 head, 1981-83	118
84. U.S. feeder pig production costs, per cwt, 1,600 head, 1981-83	119
85. U.S. feeder pig production costs, per cwt, 3,000 head, 1981-83	120

Table

	<u>Page</u>
86. U.S. feeder pig production costs, per cwt, 10,000 head, 1981-83	121
87. Feeder pig production costs, per cwt, all sizes, North-Central, 1981-83	122
88. Feeder pig production costs, per cwt, all sizes, Southeast, 1981-83	123
89. U.S. feeder pig finishing production costs, per cwt, all sizes, 1981-83	124
90. U.S. feeder pig finishing production costs, per cwt, 140 head, 1981-83	125
91. U.S. feeder pig finishing production costs, per cwt, 300 head, 1981-83	126
92. U.S. feeder pig finishing production costs, per cwt, 650 head, 1981-83	127
93. U.S. feeder pig finishing production costs, per cwt, 1,600 head, 1981-83	128
94. U.S. feeder pig finishing production costs, per cwt, 3,000 head, 1981-83	129
95. U.S. feeder pig finishing production costs, per cwt, 10,000 head, 1981-83	130
96. Feeder pig finishing production costs, per cwt, all sizes, North-Central, 1981-83	131
97. Feeder pig finishing production costs, per cwt, all sizes, Southeast, 1981-83	132
98. U.S. farrow-to-finish production costs, per cwt, all sizes, 1981-83	133
99. U.S. farrow-to-finish production costs, per cwt, 140 head, 1981-83	134
100. U.S. farrow-to-finish production costs, per cwt, 300 head, 1981-83	135
101. U.S. farrow-to-finish production costs, per cwt, 650 head, 1981-83	136
102. U.S. farrow-to-finish production costs, per cwt, 1,600 head, 1981-83	137
103. U.S. farrow-to-finish production costs, per cwt, 3,000 head, 1981-83	138

TablePage

104. U.S. farrow-to-finish production costs, per cwt, 10,000 head, 1981-83	139
105. Farrow-to-finish production costs, per cwt, all sizes, North-Central, 1981-83	140
106. Farrow-to-finish production costs, per cwt, all sizes, Southeast, 1981-83	141
107. U.S. sheep production costs, per ewe, all sizes, 1981-83	142
108. U.S. milk production costs, per cow, all sizes, 1981-83	143
109. U.S. milk production costs, per cwt, all sizes, 1981-83	144
110. Milk production costs, per cow, all sizes, Appalachian, 1981-83	145
111. Milk production costs, per cwt, all sizes, Appalachian, 1981-83	146
112. Milk production costs, per cow, all sizes, Corn Belt, 1981-83	147
113. Milk production costs, per cwt, all sizes, Corn Belt, 1981-83	148
114. Milk production costs, per cow, all sizes, Northeast, 1981-83	149
115. Milk production costs, per cwt, all sizes, Northeast, 1981-83	150
116. Milk production costs, per cow, all sizes, Pacific, 1981-83	151
117. Milk production costs, per cwt, all sizes, Pacific, 1981-83	152
118. Milk production costs, per cow, all sizes, Southern Plains, 1981-83	153
119. Milk production costs, per cwt, all sizes, Southern Plains, 1981-83	154
120. Milk production costs, per cow, all sizes, Upper Midwest, 1981-83	155
121. Milk production costs, per cwt, all sizes, Upper Midwest, 1981-83	156

Economic Indicators of the Farm Sector

Costs of Production, 1983

INTRODUCTION

The U.S. Congress requires the U.S. Department of Agriculture's Economic Research Service (ERS) to estimate annual costs of producing wheat, feed grains, cotton, and dairy commodities. ERS also determines costs for other farm products which compete with the required commodities, namely rice, peanuts, soybeans, flax, sunflowers, fed cattle, hogs, sheep, and sugar.

This report first assesses costs and returns on a per-acre basis under three sections of a budget: cash receipts, cash expenses, and economic costs. The budgets are based on national weighted average estimates of all costs associated with the particular enterprise. Cash receipts are also weighted and show expected sales for the given average yield. Government price support payments, however, are not included except as discussed later. This is because most support programs are voluntary and contain special provisions for compliance. The 1983 data are followed by an explanation of account structure, the procedures and methodology used, and how to use the data.

1983 COSTS OF PRODUCTION

Most crop growers fared much better than livestock producers in 1983 (see crop and livestock maps, pp. 26 to 35). Less production caused higher crop prices and helped increase earnings for crop farmers whose costs of production (COP) dropped. However, increased prices for such crops as feed grains meant higher expenses and decreased earnings for livestock producers. The consumer price index increased only 3.2 percent, down from 6.5 percent in 1982 and 10.6 percent in 1981. Prices paid for farm production items increased 2.7 percent, and overall prices received rose 6.6 percent for crops but fell 2.1 percent for livestock.

Input price increases hurt livestock producers more than crop producers. Feed costs rose in 1983 after price decreases in 1981 and 1982. Feeder livestock prices, however, continued to fall. Input prices of nonfarm origin generally increased 2 to 7 percent, except for fuel-based products which fell 3 to 5 percent. A breakdown of these price changes for selected input items in 1981-83 is as follows:

Input	1981	1982	1983
	Percent		
Farm origin:			
Corn	-21.2	-6.1	23.1
Sorghum	-23.4	2.2	14.7
Oats	4.4	-23.7	14.2
Soybean meal	-16.4	-4.1	2.6
Feeder livestock	-7.4	-.2	-2.7
Nonfarm origin:			
Wage rates	7.6	4.1	3.0
Interest payments	8.9	10.7	2.0
Taxes	9.7	6.3	4.1
Buildings	4.7	1.0	2.2
Autos	16.4	11.2	6.7
Tractors	11.6	8.2	6.0
Other machinery	10.4	9.3	6.9
Farm supplies	9.3	3.9	-.6
Fuels	13.4	-1.3	-3.1
Farm chemicals	8.4	7.9	4.8
Seed	16.6	2.2	.1
Fertilizer	7.3	.3	-4.9

Two events in 1983 triggered a sharp drop in total U.S. crop production: the payment-in-kind (PIK) program which reduced surpluses of wheat, corn, grain sorghum, upland cotton, and rice, and the summer drought, which reduced yields for all crops except wheat.

At the same time, following the theory of supply and demand, crop harvest-month prices increased except for hard red winter wheat, white wheat, and peanuts. The net result meant increased returns for all crops except oats and peanuts, a dramatic improvement over 1982, and in most cases, as good as returns in 1981. Except for grain sorghum and barley, all crops had a positive cash flow.

However, better crop prices and returns meant higher feed costs in the livestock sector. All livestock enterprises showed lower returns in 1983. After somewhat improved returns in 1982, cash flow was negative in 1983, except for dairies which, even with positive returns, showed earnings declines.

Crops

Corn--The 1983 summer drought severely hampered corn production, dropping yields an average 30 percent. Production was 4.2 billion bushels, the lowest since 1970, and only half the 1982 record high of 8.36 billion. However, a 50-percent increase in harvest-period price helped offset production losses by increasing per-acre receipts by 5 percent over 1982.

Total variable expenses dropped from \$132 to \$126 per acre, primarily because of lower costs for petroleum-based inputs

like fertilizer (down \$3 per acre) and fuel (down \$2.50 per acre). Less corn needed drying, so drying costs decreased \$2. Other variable input costs increased, but only slightly, so total cash expenses declined \$2.62 per acre in 1983. The net cash return jumped from 41 cents to \$16.43 per acre, still far below the \$29 level of 1981. Net returns to farmers' owned inputs also began to recover but remained slightly below the 1981 level; the residual return to management and risk continued at minus \$25.

Costs behaved about the same across the five corn regions. The drought failed to hurt yields in the southwestern region because much of the acreage was irrigated. However, water and pumping costs were high, and residual returns to management and risk remained negative. Only the Northeast region showed a positive residual return to management and risk (\$32).

Grain Sorghum--Average grain sorghum yields dropped 21 percent in 1983, but the 36-percent harvest-period price increase boosted receipts \$9 per acre, up 7 percent over 1982. Net returns improved nationally by \$8 per acre, and residual returns to management and risk improved \$7 but remained at minus \$39.

The 1983 grain sorghum production totaled 483 million bushels, 42 percent less than 1982 and 45 percent below 1981. Drought dropped yields 29 percent on the major sorghum acreage in the central Plains. Cash receipts decreased by \$1 per acre and net returns by 50 cents. The drought was not as severe in the other major production region, the southern Plains, particularly southeastern Texas. Cash receipts increased from \$116 per acre to \$135, and net returns to owned inputs increased from \$9 to \$27. Residual returns to management and risk improved 31 percent but remained minus \$30 per acre.

The irrigated Southwest, though not accounting for much acreage, improved dramatically over 1982. Yields increased slightly, prices increased 46 percent, and receipts increased 56 percent. These increases meant a \$30 net cash flow and a \$65 net return per acre, the highest in 3 years.

Barley--This crop changed minimally in average U.S. costs and returns for 1983. The 9-percent yield decrease offset the 9-percent harvest-period price increase, causing cash receipts to fall 1 percent to \$121 per acre. Total cash expenses fell \$3.61, but a \$1.50 increase in capital replacement costs caused net cash returns to improve by only \$1 to minus 47 cents. Net returns improved slightly as did residual returns to management and risk.

Total production was 519 million bushels, about the same as 1982's record high of 522 million. Costs and returns in the northern Plains moved in a similar manner to the U.S. average, although at a lower actual dollar value. Net returns increased from \$11 to \$13, while the residual to management and risk improved slightly from minus \$39 to minus \$38.

The Northwest normally has 50 percent higher yields than the northern Plains, but both yields and prices were essentially the same in 1983 and 1982. Higher 1983 fixed costs and capital replacement resulted in a \$4 decrease in net cash returns, a \$3 decrease in net returns to owned inputs, and a \$6.41 decrease in residual returns to management and risk. Only the Northeast region, mainly Pennsylvania and Maryland, showed a positive residual return at \$2 per acre.

Oats--A high percentage of oats was grown for onfarm use as feed and bedding, so any price increase failed to offset the 11-percent decrease in yields. Cash receipts dropped from \$107 per acre in 1982 to \$98 in 1983, the third consecutive year of decline. Net cash returns fell steadily from \$25 in 1981 to \$6 in 1983. Net returns to owned inputs fell from \$43 to \$20 over the same period.

The 1983 oats crop of 477 million bushels was the second smallest production since 1882, although seeded area totaled 20.3 million acres in 1983 compared with 14.3 million in 1982. This happened because acres abandoned and used for purposes other than grain (such as only for a cover crop to comply with the PIK program) accounted for 55 percent of the seeded acres compared with 26 percent in 1982 and 31 percent in 1981.

The Lake States and Corn Belt region remained stable in 1983 with net returns of \$25 and residual to management and risk of minus \$41. The northern Plains, mainly the Dakotas, showed the biggest decreases when yields dropped 18 percent and harvest-month prices dropped 2 cents per bushel. Net returns to owned inputs fell to \$12 per acre, less than half the 1982 figure of \$27. Receipts less cash expenses and capital replacement was minus 79 cents because of poor cash flow.

Wheat--The harvest-month prices of most types of wheat increased; hard red winter wheat decreased 1 cent per bushel and white spring wheat decreased 3 cents. On average 1983 was the best wheat year since 1980 with total receipts of \$132 per acre, up from \$112 in 1982. Total cash expenses including capital replacement rose only \$4, which, with the greater receipts, gave a net cash flow of \$21 per acre. Net returns to owned inputs increased from \$25 to \$41.

Winter wheat, of course, escaped the summer drought as did white wheat and durum, so each of these showed financial improvement over 1982. Hard red winter wheat, on the average, showed a 25-percent increase in receipts to \$126 per acre. Net returns were \$44, more than double the \$21 in returns in 1982. Residual returns were minus \$10, still the closest to breaking even an average acre had shown in at least 4 years. Of the four production regions, the central Plains fared best on net returns to management and risk at \$55 per acre. The northern Plains yielded net returns of \$48, the southern Plains \$25, and the Southwest \$7.

Soft red winter wheat, grown east of the Great Plains, also showed improvement over 1982. On the average, net cash returns increased from \$3 to \$17, while net returns to owned inputs improved from minus \$27 to minus \$18 per acre. The Lake States and Corn Belt region nearly tripled net cash returns to \$42 per acre, and net returns to owned inputs increased from \$34 to \$60. The Northeast had the largest positive cash flow, as well at \$75 for net returns and a \$15 residual return to management and risk per acre. Except for U.S. white wheat, soft red winter wheat grown in the Northeast was the only situation where an acre of wheat earned positive residual returns.

Hard red spring wheat net returns decreased from \$29 to \$21, and the residual to management and risk decreased further to minus \$33. Durum improved slightly when net returns increased by \$7 and residual returns increased by \$5. White wheat growers had a very good year when yields improved 23 percent, net returns reached \$95 per acre, and a residual to management and risk hit \$18.

The PIK program had a unique effect on winter wheat growers because many had already planted the 1983 crop before the program was announced in January. This meant that participants in the program had to plow under some of the acreage and seed to a cover crop. Neither these costs nor the receipts for any PIK grain program appear in the COP budgets.

Rice--Average U.S. rice harvest-month prices increased 16 percent in 1983. A 3-percent yield decrease failed to hamper a 12-percent increase in cash receipts from \$357 to \$400. Cash expenses decreased less than \$1, but because of the greater receipts, net cash returns were \$19 per acre, up from minus \$22 in 1982. Net returns increased from \$36 to \$79, and residual returns improved to minus \$44.

Rice production reached an estimated 99.7 million hundredweight (cwt), down 35 percent from 1982 and 45 percent below 1981's record level. The cool, wet weather in May slowed plant development in all areas except California, and Hurricane Alicia caused lodging in Texas where yields dropped 8 percent.

A 15-percent harvest-month price increase in the non-Delta region of Arkansas pushed up receipts to \$386 per acre. Residual returns improved 46 percent and net returns to owned inputs increased from \$44 to \$95. The experience in the Delta region was somewhat similar when residual returns to management and risk increased 60 percent and net returns to owned inputs increased from \$28 in 1982 to \$61 in 1983.

Costs and returns along the gulf coast were worse than in the other regions, although an acre of rice showed larger returns in 1983 than in 1982. The gulf coast, the only region where net cash returns were negative, showed net returns to owned inputs of \$25 per acre, better than in 1982 but only 20 percent of the 1981 level. California's irrigated rice acres showed by far the highest returns. Cash receipts were \$582 per acre, net

returns to owned inputs were \$178, and residual returns were minus \$3.

Soybeans--A 55-percent harvest-month price increase more than offset the 20-percent yield decrease, sending the 1983 average U.S. receipts from \$162 per acre to \$200. Total cash expenses remained nearly the same, so the increase in receipts carried over directly into increased returns. Net returns went from \$61 to \$100 and the residual return to management and risk was \$10 per acre, the first positive figure in 3 years.

An estimated 1.6 billion bushels were harvested in 1983, the lowest production level since 1976. Planted acreage dropped 11 percent from 1982, and the late spring rains delayed plantings in most States though plantings were mostly completed on time. Drought triggered the lower yields in all regions.

The northern Plains, at \$100 per acre, and the Lake States and Corn Belt, at \$132 an acre, showed the most impressive gains on net returns. Residuals to management and risk hit \$23 in the northern Plains, and \$19 in the Lake States and Corn Belt. Returns in the Southeast were essentially unchanged in 1983, while the Delta had net returns of \$62 and residual returns of \$8, the best in at least 4 years.

Sunflowers--Cash receipts for sunflowers increased from \$97 per acre to \$124, reflecting the 38-percent harvest-month price increase in 1983. This big price increase grew from an increased demand for sunflowerseed oil to make up for the reduced supply of soybean oil, its main competitor. Oil-type sunflower production, which accounts for 90 percent of all production, totaled only 3.05 billion pounds, down 39 percent from 1982. The per-acre effect of lessened supplies of all vegetable oils meant greater returns to sunflower growers.

Peanuts--U.S. peanut yields dipped 12 percent in 1983, and harvest-month prices dropped 4 percent. Total receipts fell from \$668 per acre to \$573. Subtracting cash expenses and capital replacement costs gave a net cash return of \$96 in 1983, down from \$201 in 1982. This 52-percent decrease in net cash returns demonstrates the financial pressure caused by changes in yields and price levels. The residual to management and risk was \$59.

Peanut production totaled 3.25 billion pounds, only 5 percent below 1982. Increased planted acreage in 1983, as well as an 8-percent increase in acres harvested, helped hold down the slight decrease in production.

Georgia and Alabama, the main producing States, were hard hit by the drought. Yields decreased 14 percent but residual returns to management and risk still reached \$103 and net returns to owned inputs were \$249 per acre. The largest reduction in yield, 26 percent, spanned the Virginia-North Carolina region, not from drought but from heavy rains during harvest. This

region was the only peanut area with a negative cash flow and negative residual returns to management and risk.

Flax--Flaxseed production fell 37 percent in 1983 to 7.36 million bushels. Per-acre yields slipped 16 percent, but harvest-month prices rose 29 percent and gave total receipts of \$79 versus \$72 in 1982. Costs remained about the same for the 2 years, and the crop showed net cash of \$8 per acre, still below 1980 and 1981 levels. Net returns to owned inputs increased from \$14 in 1982 to \$21 in 1983, but the residual to management and risk remained negative at minus \$22.

Cotton--U.S. cotton lint average harvest-month prices rose 14 percent in 1983 in response to the 16-percent yield decrease, meaning that receipts from lint sales dropped from \$319 to \$309 per acre. At the same time, receipts for cottonseed went from \$35 to \$65, so total cotton receipts increased from \$355 per acre to \$374 and produced the largest returns in 4 years for cotton growers. Net cash returns more than tripled from 1982 to 1983. Residual returns remained negative but less so, improving by 61 percent from 1982 levels.

Total U.S. production for all types of cotton declined by an average 35 percent in 1983. The Southeast was off 59 percent; the Delta, 46 percent; the Southwest, 36 percent; and the southern Plains, 15 percent.

On a per-acre basis, the Southwest, mostly irrigated land in California, claimed the highest returns. Yields fell 7 percent, but total receipts increased from \$754 in 1982 to \$869 in 1983. Net returns to owned inputs totaled \$296, and residual returns to management and risk hit \$44 per acre.

The Delta also had large positive returns of \$123 for net returns to owned inputs and \$14 for residual returns. The Southeast, though, experienced the largest decline in net returns because receipts fell 30 percent and all returns were negative.

Sugar Beets--Although grower prices for the 1983 crop will not be available until January 1985, preliminary estimates indicate that per-acre returns may be up 3 percent from 1982 because of higher processor returns for sugar. The residual returns to management and risk may rise \$17 from \$104 per planted acre in 1982. Sugar-beet acreage increased 3 percent and sugar-beet production increased only 1 percent between 1982 and 1983.

Variable costs per planted acre increased 1 percent from 1982. The cost of seed, chemicals, and repairs was higher while the cost of fertilizer and fuel decreased. Hired labor, at 17 percent of variable costs, was the largest cost component.

Sugarcane--Grower prices for the 1983 crop will not be available until January 1985, but per-acre returns may show a 4-percent increase for the 1983 crop. Despite this increase, analysts expect residual returns to average minus \$71 per acre in 1983 compared with minus \$122 in 1982.

Preliminary data indicate that sugarcane acreage harvested for sugar will have increased a modest 2 percent between 1982 and 1983, while sugarcane production will be virtually unchanged.

Variable costs per harvested acre were unchanged between 1982 and 1983. Hired labor costs showed the largest increase and fuel the largest decrease in 1983. Hired labor remained the largest single cost component and accounted for 47 percent of variable costs.

Livestock

Fed Beef--Cattle feeders have seen expenses outstrip earnings since 1980 by as much as \$5 per cwt of sales, not counting capital replacement. Largely because of cheap grain, earnings brightened in 1982, but returns still fell nearly \$1 per cwt below cash costs. In 1983 feeders' returns sank back to \$5 below cash costs as prices for slaughter cattle, stagnant around the \$63.50 level in 1981 and 1982, slipped about \$1.50 per cwt in 1983.

Drought and PIK-induced supply shortages pushed feed costs up nearly 17 percent. Feeder cattle cost about 2 percent more in 1983 than in 1982, and if energy costs and interest rates had not moderated, the 1983 outcome would have been far worse.

Farmer cattle feeders (all feedlots with less than 1,000-head capacity) hold an advantage over commercial feedlots in returns versus annual cash costs because they raise most of their feeds and rely largely on operator and family labor. The gap in favor of farmer feeders widened in 1983 (they fell \$2.70 per cwt short of covering cash costs while commercial feedlots were off \$6.16 in sales) because farmer feeders laid in much of their 1983 feed supply at exceptionally low harvesttime prices the previous fall. Commercial feedlots were more affected by the rapidly rising feed prices during 1983.

Commercial feedlots, however, continue to hold a sizable economic advantage over farmer feedlots in the long run by \$4 to \$5 per cwt of sales in 1982 and 1983. The expense of feed storage structures, cattle housing, paved lots, machinery, and equipment (all typically used well below capacity) puts an economic burden on farmer feeders so that many cannot justify replacement of inadequate facilities. Farmer feeders produced over 60 percent of all fed cattle in the midsixties but only 22 percent in 1983. About 2,200 commercial lots fed all other cattle in 1983.

Economies of size work against the farmer feeder. About 100,000 farmers still feed cattle, but half feed fewer than 20 head a year and turn out less than 3 percent of all fed cattle. Farmer feeders who sell 500 or more fed cattle a year (probably about 2,000 farms) now account for about a third of the total output of farmer fed cattle. Although they did not cover total costs in 1983, farmer cattle feeders stayed ahead of farmers who fed 20 to 100 head by \$10 or more per cwt in sales.

The structure of the cattle-feeding industry seems clearly defined. Commercial and large farmer feedlots, together fewer than 5,000 in number, produce about 85 percent of all fed cattle and continue to gain in share of total production.

Cow-calf--During 1983 cash expenses of the average U.S. beef cow-calf producer were greater than receipts from the sale of feeder cattle and cull breeding stock for the second consecutive year. Cash losses increased from a revised estimate of \$6.57 per brood cow in 1982 to \$12.78 per cow in 1983.

Lower priced cull cows and all classes of feeder cattle except steer calves reduced 1983 earnings. Cash production expenses actually declined by almost \$2 per cow, primarily because of lower fuel prices and interest rates. Total feed costs per cow changed very little, as higher 1983 costs for grain, corn, silage (which is valued on the basis of grain prices), protein supplement feeds, and salt and minerals were almost offset by lower production costs for grazing and hay. This report does not include the effects of the 1983 summer drought, because farmers feed most of the rations used in cow-calf production in the first calendar quarter which reflects supplies and prices associated with production during the previous year.

Although sales receipts exceeded average out-of-pocket expenses by about \$5 per brood cow in 1981, the net cash returns per cow failed to cover the replacement cost of capital used in the production process. This deficit grew to \$78 per cow in 1983. Producers responded to the continuing economic stress by reducing beef cow numbers again in 1983. The January 1, 1984, U.S. inventory of beef cows was 1 percent smaller than the year before and 4 percent less than on January 1, 1982.

Cash production expenses in 1983 of producers with herds of fewer than 100 brood cows averaged \$37 per cow more than in herds with 500 or more cows. Capital replacement costs were also higher by \$38 per cow in small herds on ranches with 500 or more cows. Thus, small cow-calf producers needed an average of \$74 per cow more in receipts than large producers to maintain their respective levels of operation at 1983 costs. Estimated actual receipts were only \$4 per cow greater among small producers, whose costs for cash outlays and capital replacement exceeded receipts by \$100 per cow, compared with an average deficit of \$30 per cow on large ranches.

Producers with enterprises of average size and production efficiency in all regions except the South had positive cash balances in 1983. However, costs of capital replacement exceeded returns net of cash expenses by amounts ranging from \$49 per cow in the West to \$145 in the South. Sales receipts per cow were lowest in the South, because southern producers sell more of their feeder cattle as lightweight calves. Variable expenses per cow were highest in the South, largely because of the greater application rates and cost of fertilizers used on pasture and hay crops in that region.

Net returns for the average producer to resources used in cow-calf production were negative in 1983 in each region. For the United States as a whole, producers with herds of fewer than 500 brood cows had to subsidize their feeder cattle enterprise in addition to providing "free" input services. This is an indication of the scarcity of economically viable short-term alternate uses for many of the resources, especially grazing land and capital investments, used in cow-calf production.

Hogs--Hog producers had one of their most profitable years on record in 1982, the only one in the last 5 years, but improved earnings were short-lived. Prices for slaughter hogs dropped about 15 percent and cash operating costs went up about 15 percent in 1983. As a result, farrow-to-finish hog production, which accounts for about 75 percent of all slaughter hogs, shifted from a good margin over all costs in 1982 to minus 34 cents per cwt short of cash expenses in 1983, a swing of nearly \$12 per cwt of production for the typical producer.

Hog producers increased production over 6 percent in 1983 compared with 1982. They already had plenty of up-to-date production capacity from the boom years of the seventies when producers built over half of the capacity of production facilities. More pork, coupled with increased supplies of other red meats and poultry (nearly 4 percent more in total), caused hog prices to sag. Slaughter hogs sold for around \$55 per cwt at the start of 1983, then moved irregularly downward during the year to bottom well below \$40 in late fall before rebounding to about \$45 in December. Overall, slaughter hog prices in 1983 were \$7 to \$8 less per cwt than in 1982.

The PIK program and drought combined to pinch hog producers; the reduced corn crop pushed corn prices up 25 percent in 1982. Moderate price increases for most other inputs, however, coupled with less costly energy and interest rates to hold cash operating costs to a 15-percent increase in farrow-to-finish hog production in 1983.

Feeder pig producers saw a drastic decline in earnings from 1982 to 1983 when returns of \$19 per cwt above cash operating costs plummeted to \$12 below those costs. Sharply weaker demand from finishers caused much of the downfall. Prices for feeder pigs, which hit a high of around \$125 per cwt in the third quarter of 1982, collapsed to the \$50 to \$60 level in the last half of 1983. Prices for pigs averaged nearly 30 percent less in 1983 than in 1982. Operating costs ranged about 10 percent higher in 1983, but their impact on the outcome was far less serious than the drop in pig prices.

Feeder pig finishers also fared poorly in 1983, moving from a net return of nearly \$5 per cwt of sales over cash costs in 1982 to a cash loss of nearly \$3 per cwt of sales in 1983. Finishers compensated somewhat for the worsening cost-price situation by paying about 11 percent less for feeder pigs in 1983; however, they absorbed the high prices paid for pigs bought in late 1982 for sale in 1983. They won't benefit fully

from the low pig prices of the latter part of 1983 until these pigs are ready for market in 1984. Much higher feed costs in 1983 squeezed finishers the same as other hog producers.

Producers in both of the major U.S. hog-producing regions, the North Central region at about 80 percent of production and the Southeast at about 17 percent, fared similarly in 1982 and 1983. The North Central region had better returns on production of slaughter hogs in good and bad years alike, largely because feed costs favor producers there over those in the Southeast. The economic advantage for producers in the North Central region actually bettered regional average data because economies of size improved results for the Southeast, which had somewhat larger operations on the average than the North Central region.

Strong demand in 1982 helped feeder pig producers in the Southeast earn more than north-central producers. When demand dropped in 1983, north-central producers earned more than southeastern producers, who always earned less for pigs because of shipping distances to finishers; the gap widens when pig prices are low.

Economies of size are a major force in the continuing restructuring of the hog industry. Large-volume producers fared better than smaller ones in both 1982 and 1983 largely because of more intensive use of facilities, price advantages for input purchases, and more effective production techniques. Large producers hold little if any advantage over smaller ones on the basis of returns versus cash operating costs because they rely mostly on hired labor. Unpaid operators and family members do most of the work on small operations. When costs include a value for unpaid labor, replacement of depreciable assets, and their associated carrying charges (total costs necessary to continue an operation through time) then costs per unit of production favor large operations which combine intensive use of facilities with their other advantages in performance.

Capital-intensive technologies in hog production triggered recent changes in economies of size. In 1964 only 7 percent of U.S. hog production came from operations selling 1,000 or more hogs a year. By 1978 a third of total production came from such operations. At the end of 1983, over 466,000 places had one or more hogs on hand during the year. Only 6 percent, however, had an inventory of 500 or more hogs (roughly equivalent to annual sales of 1,000 head or more), but they accounted for 51 percent of the total for the country.

Sheep--U.S. sheepherders showed slightly lower total cash expenditures in 1983 than the year before. Reductions in energy costs and interest rates more than offset increases in feed and other cash costs. Receipts topped cash expenses somewhat between 1982 and 1983 in spite of a drop in lamb and wool prices.

A 1983 reduction in the breeding herd inventory, after a 3-year buildup from the 1979 alltime low, failed to reverse the downward trend in prices. However, lamb prices may climb in 1984 and strengthen net returns if national inventories continue to drop.

During 1980-83, while lamb prices fell, wool sales tended to stabilize. Wool revenues were 21 percent of cash receipts in 1980 and 34 percent in 1983. The value of wool receipts per breeding ewe was \$10.83 in 1980 and \$16.03 in 1983, reflecting the benefits of the Government's wool incentive payment program. A steady increase in the support price has boosted total wool revenues per ewe despite declining wool market prices since 1981.

Milk--Gross receipts from sales of milk, culled cows, calves, and replacements averaged \$14.68 per cwt of milk produced in 1983, compared with \$14.66 in 1982 and \$14.94 in 1981. Fluid milk sales accounted for about 92 percent of dairy revenue during 1981-83, and sales of culled cows, calves, and dairy replacements contributed to the remaining 8 percent.

Total variable expenses for the dairy enterprise averaged \$8.02 per cwt in 1983, up 63 cents per cwt from 1982 and 57 cents per cwt from 1981, mainly because of an average 48-cents-per-cwt deduction on all milk marketed in 1983. The Omnibus Budget Reconciliation Act of 1982 and the Dairy and Tobacco Act of 1983 for paid-diversion programs combined with lower price supports to match milk production with commercial use because USDA made record dairy product purchases under the dairy price support program in 1983. Other variable expenses remained about the same except for feed costs rising 18 cents per cwt (4 percent) in 1983 from 1982 and the 48-cents-per-cwt dairy assessment.

Fixed cash expenses of \$2.52 per cwt in 1983 and \$2.47 in 1982 were up from \$2.29 in 1981 because of higher interest expenses. The assessment charge, combined with higher feed and interest expenses, raised total cash expenses to \$10.54 per cwt in 1983 compared with \$9.86 in 1982 and \$9.74 in 1981 which reduced returns above cash expenses to \$4.14 per cwt in 1983 compared with \$4.80 and \$5.20 in 1982 and 1981, respectively. Residual returns to owned inputs in 1983 dropped from the 1982 and 1981 levels.

Farmer's price, production costs, returns over cash expenses, and net returns to owned inputs varied greatly among regions. In 1983, for example, the average price received for milk ranged from \$13.18 per cwt in the Pacific region to \$14.55 in the Southern Plains region. Total cash expenses dipped as low as \$9.94 per cwt in the upper Midwest, and ranged as high as \$11.80 in the Southern Plains region. Returns above cash expenses ranged from \$1.53 per cwt in the Appalachian region to \$3.38 in the upper Midwest. Net returns to owned inputs in 1983 ranged higher in the Upper Midwest, Northeast, and Southern

Plains regions and decreased in the Pacific, Corn Belt, and Appalachian regions.

STRUCTURE OF THE ACCOUNTS

Each enterprise budget contains cost and return measures separated into three major categories: cash receipts, cash expenses, and economic costs. ERS and the Statistical Reporting Service (SRS) collect much of the technical data used to estimate the costs through enumerated surveys of farm operators. Quantities of variable inputs are multiplied by their respective prices to obtain the costs shown in the enterprise budgets.

Cash Receipts and Cash Expenses

ERS includes cash receipts so that an analyst may estimate the residual returns to management and owned resources used in the production process. These residual returns fluctuate because of changes in the harvest-month price (for crops) and the average market price (for livestock). Receipt information provides data to assess the economic performance of a commodity in a particular year or over time by permitting the calculation of net returns.

Cash expenses are the out-of-pocket costs incurred during the production process. The cash flow position of producers is determined by subtracting cash expenses from the value of production (cash receipts).

ERS tabulates cash returns (receipts less expenses) both before and after a charge for the replacement of capital invested in buildings and machinery. In any given year, an operator may defer machinery and equipment purchases depending on the income or tax position of the farm. However, over the long run, operators must set aside funds to replace wornout equipment. The residual cash returns reflect funds available for family living, debt retirement, or other discretionary uses and should reflect economic depreciation of machinery and equipment.

Economic Costs

Total economic costs and returns can be used to compare various commodities without regard for equity levels or tenure of producers. For example, the cash expenses of two farm operators producing corn may be completely different because of differing levels of debt, even when identical practices and technology on similar land are used.

Economic costs partly consist of variable expenses (less actual interest charges) plus general farm overhead, taxes and insurance, and the charge for capital replacement. If this amount is subtracted from cash receipts, the residual return to owned inputs can then be allocated to cover the costs of land, machinery, labor, and capital invested in operating inputs during the production process. The cost allocation to land, machinery, and labor is based only on the imputed value of each item in the production process.

Individual operators have many methods of allocating residual returns to cover the costs of owned or fixed resources. Some operators assign a proportionately large return to cover land

ownership costs and then leave a small return to unpaid labor; others may do the opposite. In the COP budgets, the methodological procedure for allocating residual revenues to each asset uses the annual rate of return the producer could expect capital to earn in the current year without taking inflation or deflation into account. The returns to management and risk are the residual amount after making these deductions. The returns to management and risk can be evaluated only in light of the given allocation of residual returns and are directly comparable only when the same procedure is used for those commodities.

In the long run, the return to risk is expected to average near zero, although in any particular year the residual return to risk could be positive or negative depending on weather and supply and demand factors. The return to management should be positive, but the level remains unknown and is speculative. Therefore, the residual returns to both management and risk are expected to average above zero over time.

The earnings value of an owner-supplied input during the production process is often difficult, if not impossible, to determine. For example, one cannot easily assess the additional revenue earned when a producer invests more money in operating inputs rather than incurring additional short-term debt. As a consequence, the accounts in this report are calculated by assuming that the rational producer expects money invested in variable production inputs to earn at least as much as if it were rented or placed in a savings account or similar financial instrument. Thus, the latter, relatively risk-free rate of return, which is the opportunity cost of these funds, is used to estimate the imputed annual return to invested operating capital. Because of the large number of financial instruments available to producers, ERS used the average 6-month U.S. Treasury bill rate.

ERS used a similar procedure to value the time the operator and other individuals work on the farm. At a minimum, their unpaid labor is worth the equivalent of the hired wage rate. In the crops budgets, hired labor (a cash expense) and unpaid labor are combined; they could not be separately identified given available survey data. Any additional return, reflecting the operator's entrepreneurial skill, appears in the residual return to management and risk.

The annual expected return the average producer might receive from capital invested in machinery and other nonland production assets used in the production process is estimated directly from data published in Economic Indicators of the Farm Sector: Income and Balance Sheet Statistics. A single real rate of return estimates the annual earnings of owner-supplied or owned assets for all commodities in all regions. Data are not available to estimate rates specific to various commodities and regions. Because of a redefinition of a farm by the Census Bureau, ERS updated the real rates of return for 1981 and 1982 since last year's COP report.

ERS also updated the return to land for previous years to reflect ideas from many discussions with users, recommendations of the National Agricultural Cost of Production Standards Review Board (a committee of farmers and other agricultural professionals established by Congress to review and comment on USDA's COP estimates), and the availability of newly acquired survey data. The new estimation method for calculation of a return to land for crops uses rental value as a proxy for land returns rather than using the real rate of return to production assets; for livestock, land is still estimated by using the real rate of return and the current land price.

PROCEDURE

ERS prepares and presents COP data in the form of an enterprise budget, which is a summary of all operator and landlord costs and returns associated with the production of an individual commodity. ERS prepares enterprise budgets on a per-unit basis, such as one acre or one animal. Regional enterprise budgets represent average production input use and technology. A State enterprise budget covers each commodity in each major producing region. ERS weights these data according to production and aggregates them to determine the regional and national average costs of production.

For surveys taken through spring 1984, SRS drew a random sample from all producers who had responded to acreage and production surveys. SRS sampled farms from the list of respondents with a probability proportionate to size so that each unit of production (an acre or animal) in the region had an equal chance of being included in the survey. Thus the survey data tend to represent acreages of surveyed crops on the larger commercial farms because of their larger number of acres. For example, a 1,000-acre farm with 400 acres of a crop has twice the probability of being sampled than a 300-acre farm with 200 acres of the same crop.

Rather than solicit per-acre or per-unit costs directly from farmers, ERS uses more generalized methods because individual farmers often employ different accounting methods. Surveys determine the quantity of each input and describe field operations, the size and type of equipment, fertilization rates, seeding rates, custom operations, and labor use. This information complements other price and quantity data available from other surveys conducted by ERS and SRS. These additional data include crop acreages, crop yields, prices received for agricultural commodities, prices paid for agricultural inputs, fertilizer use on some commodities, and observations of sample field plots for yields. SRS also collects data on land values and rental rates.

Engineering relationships in conjunction with a computerized budget generator determine estimates of fuel use, repairs, total labor for crop production, and machinery replacement costs. The economic engineering equations, developed by the American Society of Agricultural Engineers (ASAE), calculate machinery fuel and repair costs as well as a replacement allowance, interest, taxes, and insurance based on the original

price of the machine and annual hours of use. Formulas also estimate the required amount of labor needed to perform machinery operations. COP surveys provide the amount of hand labor and labor required for livestock production.

ERS estimated the costs in this report by using the following surveys:

Commodity	Production year	States surveyed	Producers surveyed
			<u>Number</u>
Corn	1982 1/	8	424
Grain sorghum	1982 1/	4	567
Barley	1982 1/	2	205
Peanuts	1982 1/	7	605
Cotton	1982 1/	13	928
Winter wheat	1982 1/	8	757
Soybeans	1982 1/	9	544
Sugar beets	1980	13	774
Sugarcane	1980	4	97
Rice	1979	5	493
Other crops	1978	2/	2/
Dairy	1979	25	2,096
Sheep (Western)	1980 .	14	528
Hogs (North Central and Southeast)	1980	18	1,288
Beef cows	1980	36	2,274
Fed beef (Corn Belt)	1980	5	200

1/ The 1982 survey was for the South only; budgets for the other regions are based on a 1978 survey of 5,460 producers.

2/ Oats, durum and other spring wheat, sunflowers, and flax are based on the 1978 survey.

METHODS AND USE OF DATA FOR ESTIMATING COSTS AND RETURNS

This section outlines the procedures for estimating the various components of receipts, cash expenses, and economic costs, and demonstrates how the primary survey data and other secondary data become COP estimates.

Cash Receipts

Cash receipts consist of all current returns generated from producing the specific unit of commodity. Prices for crops reflect harvest-month prices; livestock prices reflect season-average market prices. Gains (losses) accruing from asset appreciation (depreciation) are not included. Cash receipts are a function of both yield and price. Weather is primarily responsible for yield fluctuations, and supply and demand factors are primarily responsible for the yearly price fluctuations. Because costs per acre have continuously increased over recent decades, the volatility of cash receipts is the primary cause of fluctuations in the amount of available cash and returns to management and risk. As a result, yields and prices can be compared in any particular year to determine if

either one is only temporarily depressed or larger than normal and if longer run return problems are emerging.

ERS includes revenues generated from the sale of both primary and secondary products and additional revenues (only when a secondary product exists). Secondary products typically include cottonseed, the value of residue following crop production, or the sale of culled livestock. The total costs shown include the production of all primary and secondary products, because in most cases costs for both primary and secondary products cannot be estimated separately. Consequently we see total revenues from all products and their associated total costs.

Crop cash receipts may be based on either the seasonal average price received by farmers over the marketing period or the harvest-period price. To be completely consistent, storage and marketing costs should be included in the budget when the analyst uses the seasonal average price. The prices used for crops in this publication are the harvest months' average prices received by farmers, because data on the marketing patterns and methods of storing and selling crop production are not currently available. The budgets exclude any additional revenues the farmer may have earned by storing the crop for later sales as well as the associated costs of storage. Future surveys will determine storage costs so that more readily available season average prices may be used.

Estimating total returns omits direct Government price support payments, except for wool. In the peanut, milk, and wool programs, the Government supports the product price through direct market intervention. As a result, the value of production reflects the combined market price and masks Government payments. In contrast, most crop price support programs are voluntary and contain special provisions for compliance. Both program payments and the costs of compliance need to be excluded when policymakers use cost and return information to determine if support prices will encourage or maintain production at adequate levels.

Cash Expenses

Cash expenses consist of both variable expenditures (those incurred only if production takes place in a given year) and fixed expenditures. Fixed expenditures include items such as taxes, insurance, overhead, interest, rent, and leases for which the operator or landlord would be responsible whether or not the decision is made to produce a specific commodity.

Variable cash expenses include seed, fertilizer, lime and chemicals, custom operations, hired labor (in livestock and sugar budgets only), fuel and lubrication, repairs, drying, ginning, purchased irrigation water, and hired management fees.

Data on seed quantities used per acre come from both Agricultural Statistics and COP surveys.^{1/} Seed prices include both purchased hybrid varieties and home-produced seed. A crop such as corn that uses mostly hybrid seed means purchased seed prices are taken directly from State seed price estimates in Agricultural Prices. Estimated composite seed prices are used for home-produced seed. The composite prices follow previous season average prices plus an allowance for cleaning and treating. Data on the share of seed purchased and produced at home come from either Field Crops or COP survey data. The April Agricultural Prices report provides data on market prices for seed for spring-seeded crops; seed prices for fall-seeded crops come from the September report.

Fertilizer quantities for corn, cotton, soybeans, and wheat come from the Fertilizer Situation report, which provides estimates of the quantity of fertilizer used by nutrient (nitrogen, phosphate, and potash) in major producing States. For other crops, COP surveys determine data on fertilizer, lime, and gypsum use. Prices for all fertilizer materials come from the March Agricultural Prices.

COP surveys provide pesticide cost data, although individually identified pesticides are not listed because of the large number of chemical compounds and trade names. In nonsurvey years, adjusted pesticide costs follow the index of prices paid for farm chemicals provided in Agricultural Prices, a procedure that excludes variation in quantities and location of use. Variables affecting pesticide use and costs such as new chemicals, insect infestations, disease outbreaks, unusual weed problems, or rotation changes cannot be measured in nonsurvey years. However, because COP surveys must yield reliable estimates at regional and national levels, we assume that localized pesticide use changes will not substantially affect aggregate figures.

Custom operators and farmers alike apply pesticides. In many cases, they combine pesticide application with another farm machinery operation. Some dealers sell pesticides and then rent applicators to farmers. Many custom operators charge a flat rate and do not provide a cost breakdown between application and materials applied. Custom service cost estimates come from the COP surveys supplemented by State information whenever available. ERS updates these rates annually using a farm services and rent index published by SRS and custom rate reports from individual States.

ERS is collecting data on hired labor and paid management fees for crops, so until the amount of hired labor can be estimated, the return to labor in the economic cost section reflects the return to all labor involved in the production process. Similarly the return to management and risk also includes a return

^{1/} All publications cited in this section are published by the U.S. Department of Agriculture.

to both paid and unpaid farm managers. In the livestock and sugar budgets, paid and unpaid labor appear as separate items.

These cash expenses are relatively easy to determine, but the procedure for calculating the cost of owning and operating machinery and equipment is more complex because every farm has a different age and size distribution and different numbers of machinery and equipment items. Most farms produce more than one commodity, and an allocation of machinery costs among commodities must assess the relative use of machinery for each commodity.

The COP estimates rely on the COP survey data to determine machine use, including size, type, and number of passes over the field. This survey information helps create a machinery complement for a State or region which contains up to 100 machines and leads to the average number and size of machines necessary to produce a specific crop. ERS specifies the type of fuel used, age when purchased, length of life, total hours of annual use, and the list and purchase prices. Agricultural engineering formulas use this information to estimate fuel, repairs, machinery operation, labor, and ownership costs.

ERS computes machinery costs on a per-hour basis, and budget costs reflect hours of use of each machine, which in turn, depend on the size of machine and the number of times the machine passes over the acre. Engineering performance equations determine the hours of machine time. The theoretically estimated machinery time must be adjusted for lost time in turning corners, refueling the machine, and other interruptions. Per-acre time requirements for each machine are then multiplied by the number of times the machine moves over the field to determine total hours of use.

Fuel costs for tractors are related to power takeoff (PTO), horsepower size, and fuel consumption at a 55- to 60-percent load rate. For other machines, ERS gauges fuel consumption at the hourly rate specified for each machine. The total amount of fuel used for the production of the commodity is the sum of all the fuel used for each machine based on the required hours of use. Prices for fuels in each State, adjusted for refundable Federal and State excise taxes, come from the July issue of Agricultural Prices.

ERS updates list prices of machines annually. The June annual summary of Agricultural Prices shows average prices paid for some farm machinery in each State. Prices of specialized machines and prices of optional equipment, not included in the SRS machinery price survey, are supplemented by current price lists obtained from all major farm machinery manufacturers. Hours of use and ASAE-provided engineering equations determine tractor and machinery repairs.

Motor vehicle (trucks and pickups) costs are included in the machinery costs for fuel, lubrication, and repairs. Farm operators in the COP surveys provide vehicle sizes, annual

mileage, and estimated hours of use to determine average hours of use per cropland acre. ERS estimates vehicle costs on an hourly basis and multiplies them by the estimated hours of use per acre.

For a few crops, estimates of drying expenses mirror the percentage of the crop dried and the initial moisture content. Estimates of the percentages of crops dried in the Corn Belt, for example, come from special reports published by States. Great Plains estimates require consulting with university and Extension Service staff and analyzing results of special drying and storage studies. Annual updates reflect changes in fuel prices, yields, and initial moisture content. Similar calculations provide estimates of ginning costs.

COP survey data determine irrigation costs. In ground-water (well) regions, procedures for estimating costs are similar to those used for machinery. Analysts obtain data on average well depth, pumping rates, and distribution system type. Irrigation equipment, power units, and the distribution system, including the well, appear as part of a special irrigation complement. ERS also gathers power unit, distribution system, and well-drilling prices from State Extension Service budgets, State irrigation data, equipment dealers, and private companies. Machinery cost estimates include irrigation fuel, repair, and labor costs. Costs of purchased irrigation water appear as a separate item.

General farm overhead includes electricity for general farm use, telephone, office supplies, fees and dues, water drainage, liability insurance, fence repairs, and general business expenses. ERS collects costs for these items from the Farm Production Expenditures Survey (FPES) and allocates the costs among the respective commodities on the basis of total farm receipts.

Livestock cash expenditures include labor, feed (purchased and homegrown), hauling, breeding, veterinary fees and medicines, fuel and lubrication, machinery repairs, general farm overhead, and miscellaneous items.

Farmers use grains and forages raised on the farm as the primary source of feed in most livestock-producing areas. COP surveys provide data on the amounts of farm-grown and purchased feed. ERS prices farm-grown forages at their costs of production, and values purchased forages at a market price. Purchased feed usually encompasses commercial feed mixes, supplements, and other minor feed items but sometimes includes forages as well in many regions. ERS updates prices for each type of farm-grown feed using regionally weighted annual indexes. Commodity-weighted indexes and SRS price data determine the price of purchased grains fed. Grain for feed reflects market price rather than production cost. Updated commercial (mixed) feeds use the prices from 14-percent protein feed. SRS collects data on prices of baled hay to update the purchased forage prices.

COP surveys provide data on livestock hauling and regional livestock transportation costs and updates them by using a weighted average of the farm and motor supplies index (70 percent) and the fuels and energy index (30 percent) as reported in Agricultural Prices.

COP surveys also collect veterinary and medical expense data. The updating procedure reflects a weighted average of the nonagricultural hourly wage rate index (70 percent) and the agricultural chemicals index (30 percent.)

COP surveys collect breeding fees and miscellaneous expenses data. ERS updates these items annually, using the "all production items" index in Agricultural Prices. Fuel and electricity consumption rates per hour for operating special dairy equipment came from an unpublished study of energy use on dairy farms.

COP surveys measure livestock enterprise labor data. Hired labor is a cash expense; hired labor used to produce farm-grown feed appears in the feed costs. The economic cost section carries total unpaid labor for the enterprise and for any farm-grown feed.

Fixed cash expenses consist of taxes, insurance, interest, rent, and lease costs. Taxes include personal property taxes on machinery and real estate taxes. Basing insurance and personal property tax estimates on current machinery and livestock prices can change this component of total cost. Therefore tax and insurance costs for machinery are first computed on the basis of current machinery prices and then lagged 4 years, which assumes that major high cost items in the machinery complements, such as tractors, are owned by the average commercial producer for about 8 years.

The annual FPES provides data on cash interest expenses. ERS calculates cash interest expenses for the farm separately and reports them as a total for all nonland and real estate categories. Real estate interest consists of payments on loans secured by real estate. Interest on all other loans falls under the nonland category. ERS bases the enterprise interest expense on its contribution to total farm receipts.

ERS estimates the costs of machinery, equipment, and breeding livestock at current prices. Thus the capital replacement item represents a charge sufficient to maintain a machinery or livestock investment and production capacity through time.

The budgets include replacement costs associated with breeding stock. The value of purchased breeding animals depreciates to salvage value. The number of years over which the animal's value depreciates varies by region and species. Animals used for replacement, but raised on the farm, do not depreciate because the cost of raising these replacements is included in the budget; depreciating raised replacements would be double-counting.

Economic Costs

Estimated economic costs allow comparison of commodity returns across varying levels of equity and tenure. Variable expenses in the economic cost section are the same as those shown in the cash expenses section as are general farm overhead and taxes and insurance. The capital replacement allowance is identical to that listed in the cash expenses section. The remaining return to owned inputs after subtracting these items must then be allocated to operating capital, (unpaid) labor, other nonland capital, land, and management and risk because they cannot be determined during the production period through market transactions and, therefore, must be imputed.

ERS does not value production assets, such as machinery, equipment, breeding livestock, and labor at their acquisition costs. An average operator could expect these inputs to receive an annual return equal to their opportunity costs in alternate uses, exclusive of asset valuation changes because of inflation or deflation. For any nonland asset used in the production process, the rate of return must be calculated from (residual) earnings from the current production process. Do not include any earnings from price appreciation (capital gains) or price depreciation here or in the value of production or receipts section. Calculate the rate of return for a given year by taking the average of the previous 20-year total return to production assets in the agricultural sector, subtracting the value of the operator's labor used each year, and dividing by the respective value of production assets. All three series appear in Economic Indicators of the Farm Sector: Income and Balance Sheet Statistics.

The 20-year average calculated rates for 1976-83 are:

<u>Year</u>	<u>Percentage</u>	<u>Year</u>	<u>Percentage</u>
1976	4.26	1980	4.43
1977	4.31	1981	4.42
1978	4.33	1982	4.42
1979	4.33	1983	4.38

ERS charges the opportunity cost of operating capital on all variable inputs from the month of use to the harvest month. For example, seed corn is purchased and planted in April-May, and the crop is harvested 6 months later in October-November. The charge for annual capital needed for operating inputs uses the 6-month U.S. Treasury bill rate.

The expected rate of return generated by agricultural production assets determines the allocated return (cost) of capital invested in the remaining nonland factors of production. To calculate the annual earnings a producer can expect from machinery, equipment, and breeding livestock, multiply the total value of these assets by the rate of return to all production assets, for example, 4.38 percent in 1983.

In last year's report, the return to land was calculated in the same manner as the nonland factors, multiplying the average

current land value by the 20-year rate of return. Economic theory would say that this estimate would very closely approximate observed rental rates. However, for this to be true, one must have land values specific to the crop and region. In many cases, the land value ERS reported may have been heavily influenced by land used for a particular crop (for example, irrigated rice in California), and therefore, land for other crops in the region may have been overvalued. To improve the reliability of the estimated returns to land, ERS now employs a composite cash/share rental value for crops, and previous years' figures for crops have been revised. ERS estimates the composite rental value by taking the per-acre cash rental rate and the per-acre share rental rate from survey data and weighting each by its respective share of total acreage rented. Because real estate taxes already appear in the survey rental rate data, taxes are subtracted from the rental value in the budget to prevent double-counting and to give a net rental value. This methodological change follows suggestions by data users and by the National Agricultural Cost of Production Standards Review Board. We continued estimating land cost for livestock production using the 20-year rate.

Livestock budgets ascertain land charges for feed production by using either market prices for feeds or costs of production, whichever is applicable. For dairy, land occupied by the barnyard and farm buildings receives a cost in the allocated returns section because the cost of land associated with feed production is already covered.

Machinery labor requirements for each budget relate directly to machinery time requirements. Labor is assumed to equal 110 percent of tractor use time (in the case of pulled implements) and 120 percent of self-propelled implement use time. Because tractor use time is 110 percent of pulled implement time, labor associated with tractors and implements is 121 percent of the implement use time. Total hours of labor equal the sum of all machine, irrigation, and livestock labor. Additional labor may be added to the budgets where applicable for irrigation or other hand operations as determined by COP survey data.

The wage rates for labor estimates, based on data published in Farm Labor, are the sum of the State's annual average hourly rate for "all hired farm workers," plus the employer's share of social security taxes. Subtract any expenses for hired labor from the total estimated labor cost to leave a return to unpaid labor provided by the operator, family, or others.

USING COST-OF-PRODUCTION DATA

Although costs and returns appear here on a per-acre, per-cwt, or per-head basis, crop per-bushel costs of production are also quite important for farm management or agribusiness planning and for agricultural policy and program decisionmaking. These budgets include both operator and landlord costs. However, per-unit costs (dollars per bushel or per pound for peanuts and cotton) based on these budgets can be used for many other purposes, so correct selection of the proper per-unit cost depends entirely on the user's objective(s).

ERS calculated four alternate total per-unit cost figures based on cash expenses and economic costs for 1981 to 1983 and an average 1981-83 cost by using actual yields per acre. Of course, users should view each of these figures as a guide. Additional per-unit costs can be recomputed by adding or substituting the relevant costs, as determined by the user, within each section and then dividing by actual yields provided here or trend yields determined elsewhere. Either total cash expense or economic cost items (some cash expenses plus imputed opportunity costs of providing production assets, such as land, machinery, labor) must be summed independently, because some items are necessarily duplicated in each section.

Cash expense per unit reflects the shortrun out-of-pocket variable and fixed costs incurred, and minimum breakeven price needed, on an average acre of cropland to raise and harvest a crop with a given yield. For example, corn cash expense per unit ranged from \$1.86 to \$2.62 during 1981-83, with an average per-bushel cash expense of \$2.12.

Cash expense with replacement reflects the addition of capital replacement expenses and the amount of dollars needed to replace the machinery and equipment used up during the production process, besides all cash expenses. To maintain the physical production plant over time, the timely replacement of the capital stock is necessary to produce the crop. The addition of per-unit capital replacement expenses to per-unit cash expenses leads to an average increase for corn of 30 cents per bushel to \$2.42 from 1981 to 1983.

Economic costs excluding land reflect all cash expenses (less cash interest), capital replacement, and allocated returns to labor, operating capital, and nonland capital. ERS must impute the allocated returns for some items because they cannot be measured directly. These per-unit costs indicate the average longer run costs which must be covered in some manner to keep an acre of land in production before payment of land rent, whether to the owner-operator or to the landholder. The economic costs excluding land ranged from \$2.00 to \$2.76 and the average was 15 cents higher at \$2.27 than cash expense costs per bushel of corn from 1981 to 1983.

Economic costs including land reflect total economic costs, including an estimated rent to the landowner and shows the breakeven longrun average price necessary to continue producing a crop. In this case, all longrun costs appear in the budget. For example, the economic cost including land for producing corn ranged from \$2.54 to \$3.53 and averaged \$2.89, 77 cents above the out-of-pocket expense per bushel.

Following are the selected per-unit costs for major U.S. crops:

Item	1981	1982	1983	Average,
				1981-83
<u>Dollars per bushel</u>				
Corn:				
Cash expense	1.86	1.87	2.62	2.12
Cash expense with replacement	2.12	2.14	3.01	2.42
Economic cost excluding land	2.04	2.00	2.76	2.27
Economic cost including land	2.60	2.54	3.53	2.89
Grain sorghum:				
Cash expense	1.68	1.85	2.34	1.96
Cash expense with replacement	2.11	2.35	3.02	2.49
Economic cost excluding land	2.17	2.45	3.09	2.57
Economic cost including land	2.67	2.91	3.70	3.09
Barley:				
Cash expense	2.03	1.75	1.85	1.88
Cash expense with replacement	2.53	2.26	2.44	2.41
Economic cost excluding land	2.47	2.32	2.51	2.43
Economic cost including land	3.05	2.86	3.11	3.01
Oats:				
Cash expense	1.47	1.29	1.42	1.39
Cash expense with replacement	1.82	1.65	1.84	1.77
Economic cost excluding land	1.89	1.79	2.00	1.89
Economic cost including land	2.34	2.39	2.61	2.45
Wheat:				
Cash expense	2.76	2.63	2.38	2.59
Cash expense with replacement	3.37	3.28	3.00	3.22
Economic cost excluding land	3.40	3.33	3.03	3.25
Economic cost including land	4.34	4.21	3.95	4.17
Soybeans:				
Cash expense	3.57	3.38	4.23	3.73
Cash expense with replacement	4.26	4.09	5.17	4.51
Economic cost excluding land	4.24	4.02	5.01	4.42
Economic cost including land	6.15	5.65	7.55	6.45
<u>Dollars per pound</u>				
Peanuts:				
Cash expense	0.166	0.159	0.182	0.169
Cash expense with replacement	.182	.177	.204	.188
Economic cost excluding land	.165	.161	.184	.170
Economic cost including land	.205	.196	.220	.207
Cotton:				
Cash expense	.531	.545	.618	.565
Cash expense with replacement	.604	.621	.714	.646
Economic cost excluding land	.603	.618	.706	.642
Economic cost including land	.699	.719	.839	.752

Figure 5

Wheat Production Regions (Winter Wheat)

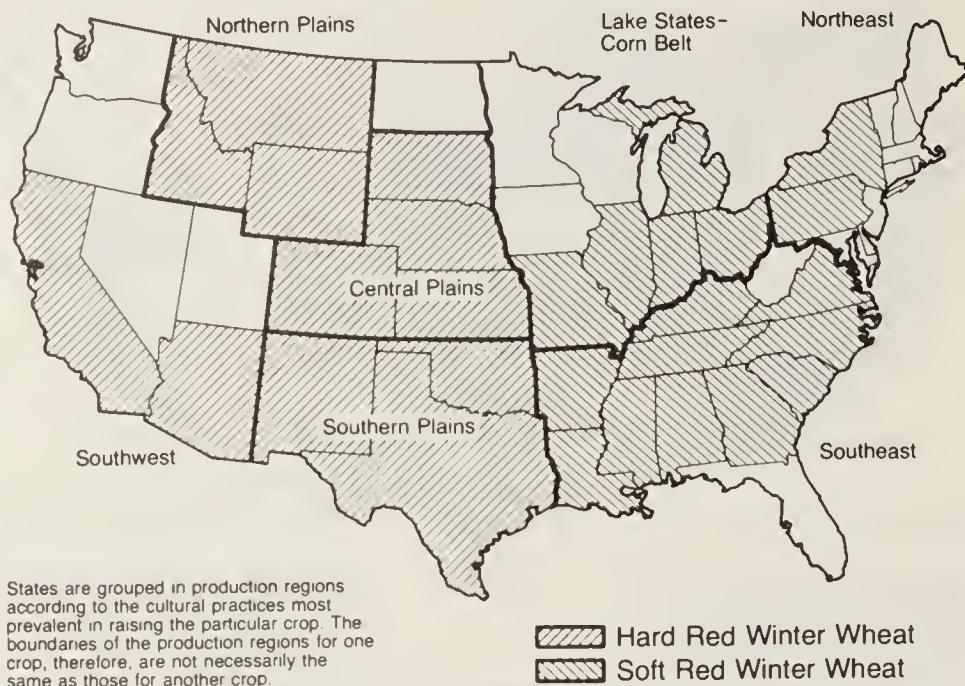


Figure 6

Wheat Production Regions (Spring Wheat, Durum, and White)

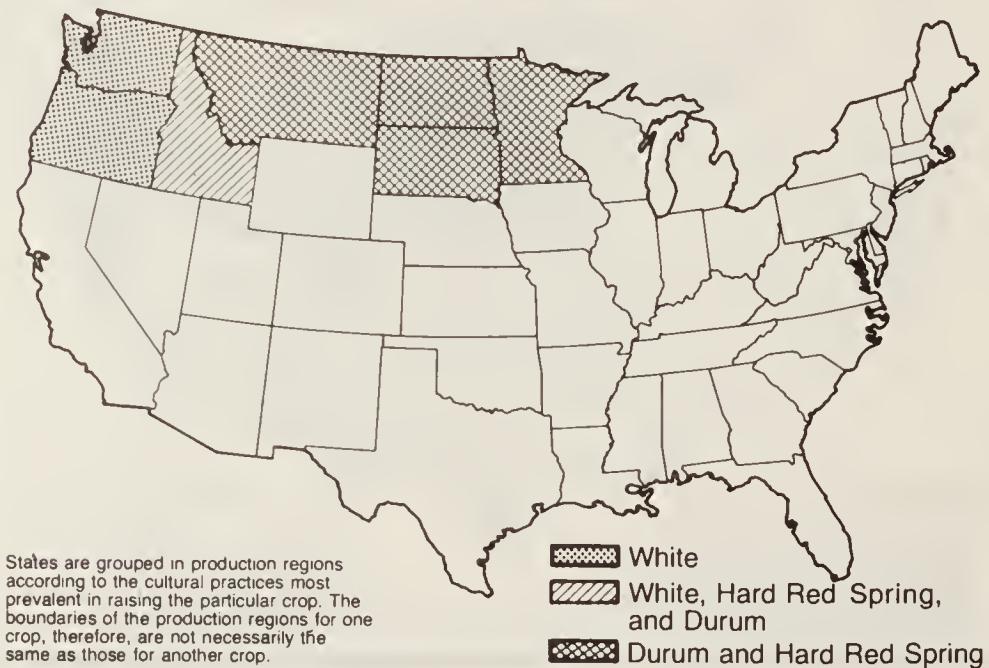


Figure 7

Rice Production Regions

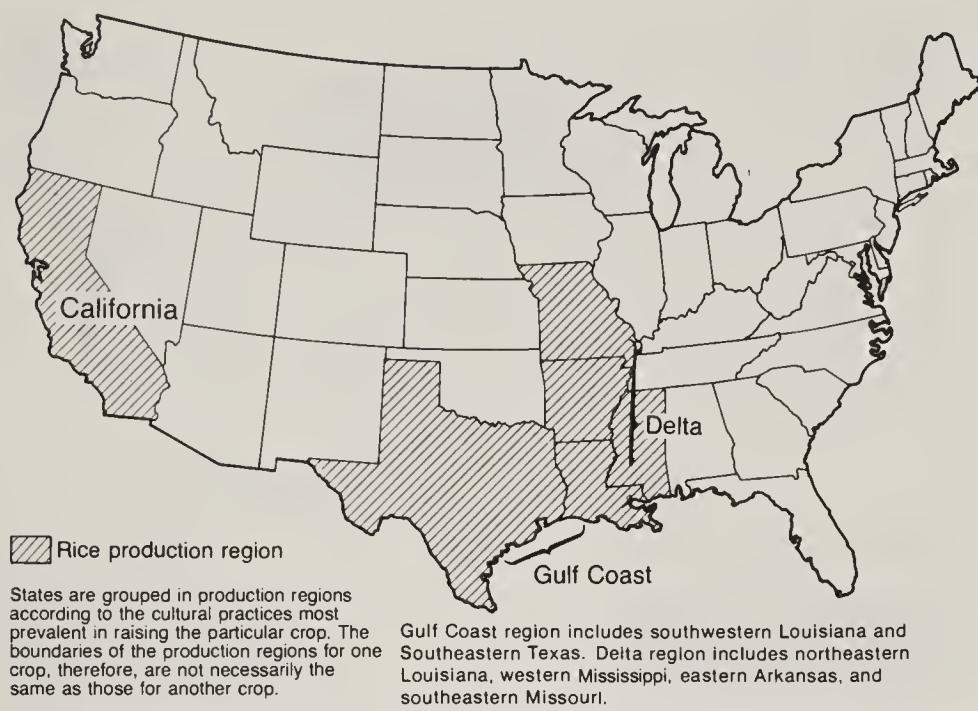


Figure 8

Soybean Production Regions

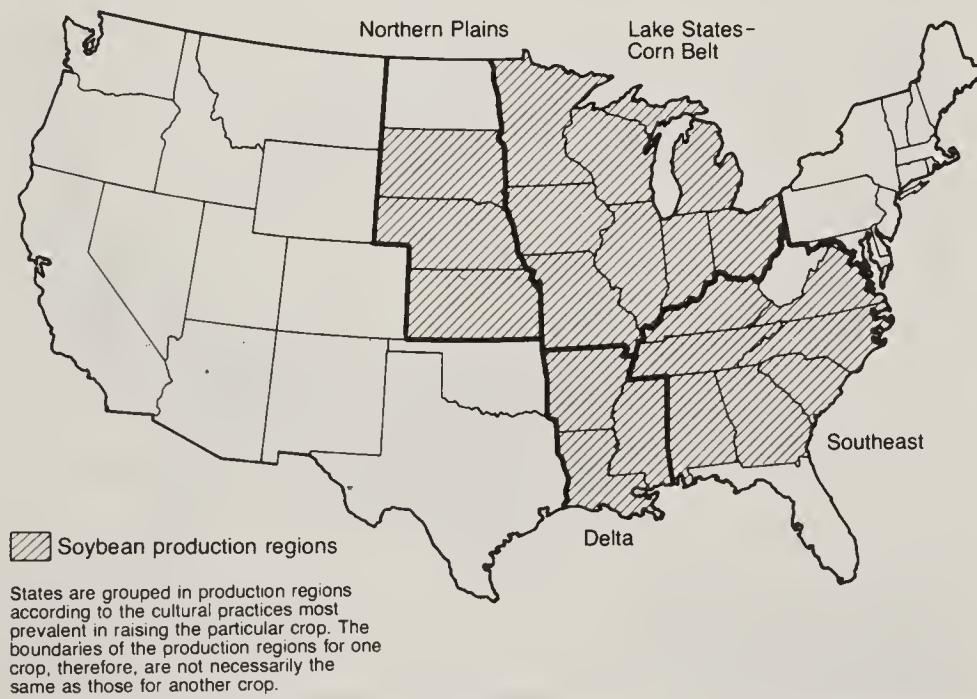


Figure 9

Sunflower Production Region

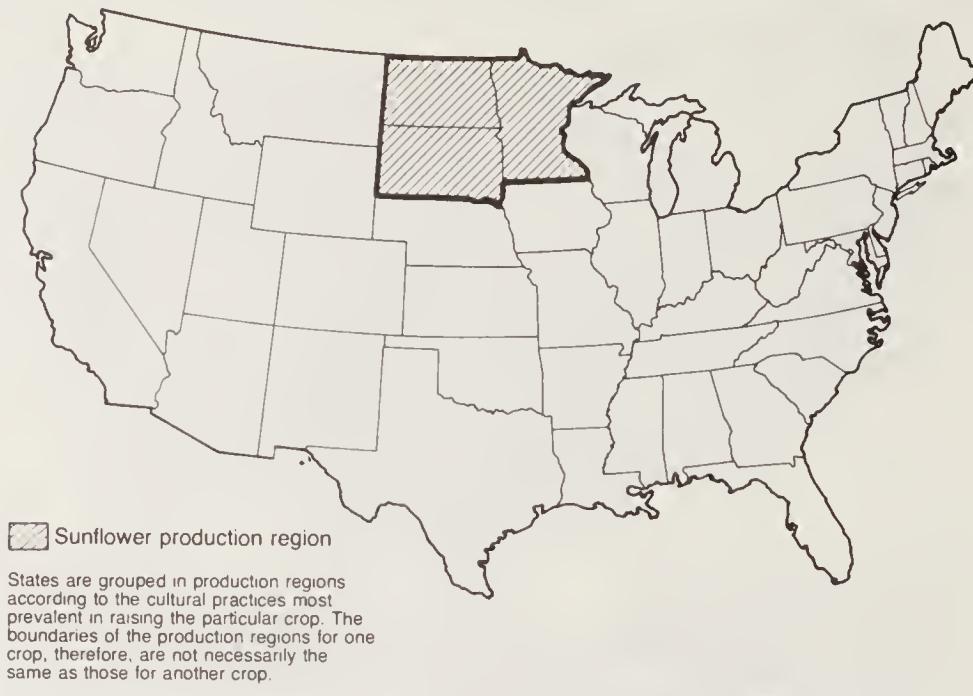


Figure 10

Peanuts Production Regions

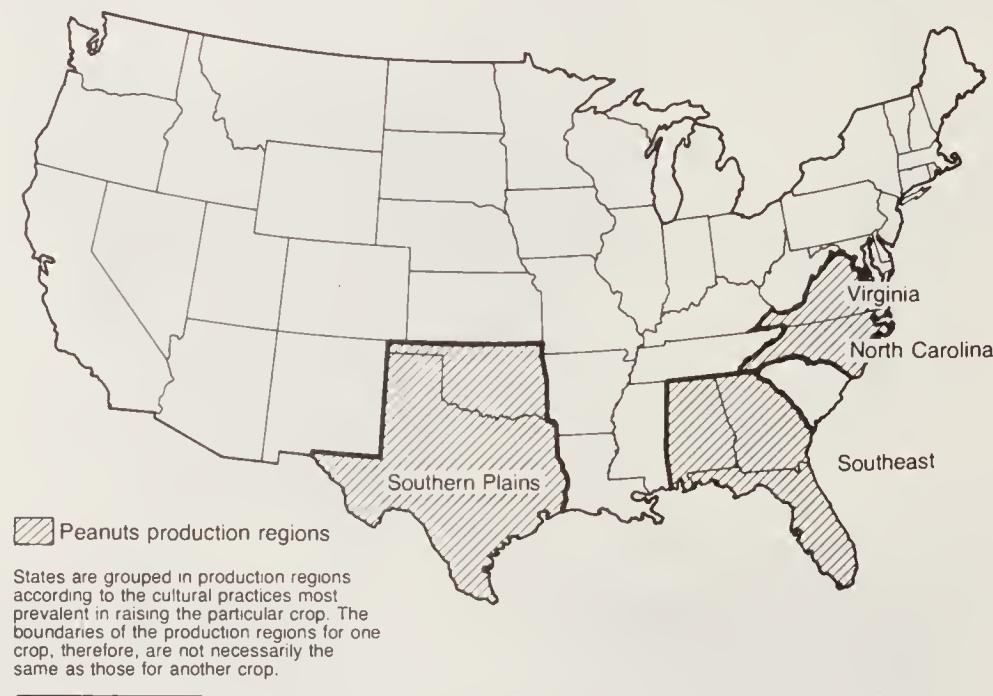


Figure 11

Flax Production Region



Figure 12

Cotton Production Regions



Figure 13

Sugar Beet Production Regions

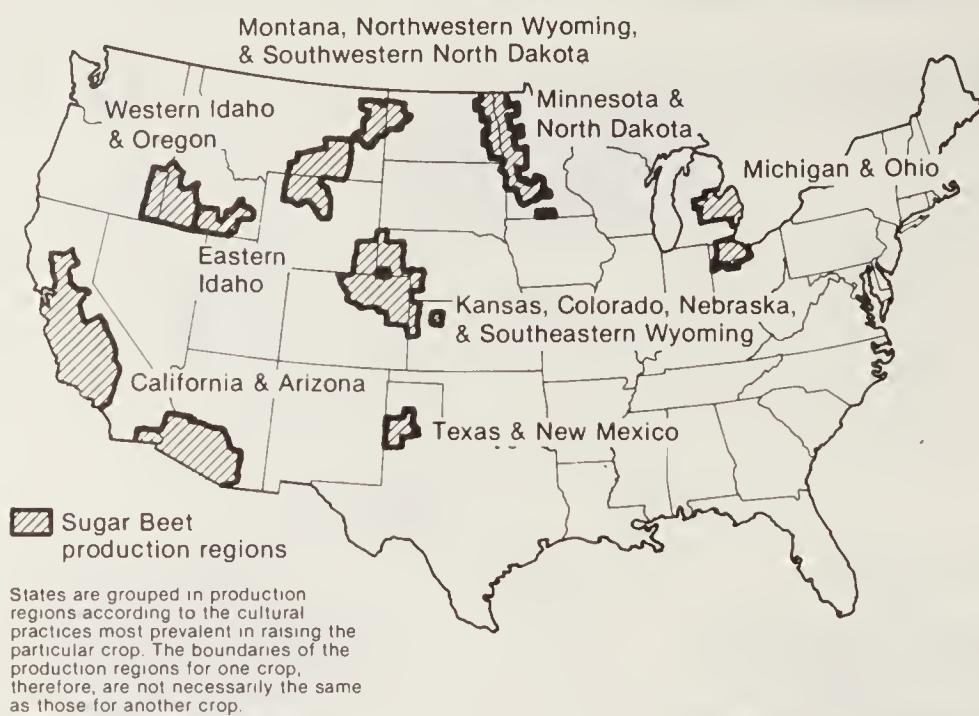


Figure 14

Sugarcane Production Regions



Figure 15

Fed Cattle Production Region



■ Fed Cattle production regions

States are grouped in production regions according to the cultural practices most prevalent in raising the particular crop. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 16

Cow-Calf Production Regions



■ Cow-Calf production regions

States are grouped in production regions according to the practices most prevalent in raising the particular animal. The boundaries of the production regions for one enterprise, therefore, are not necessarily the same as those for another enterprise.

Figure 17

Hog Production Regions



Figure 18

Sheep Production Region

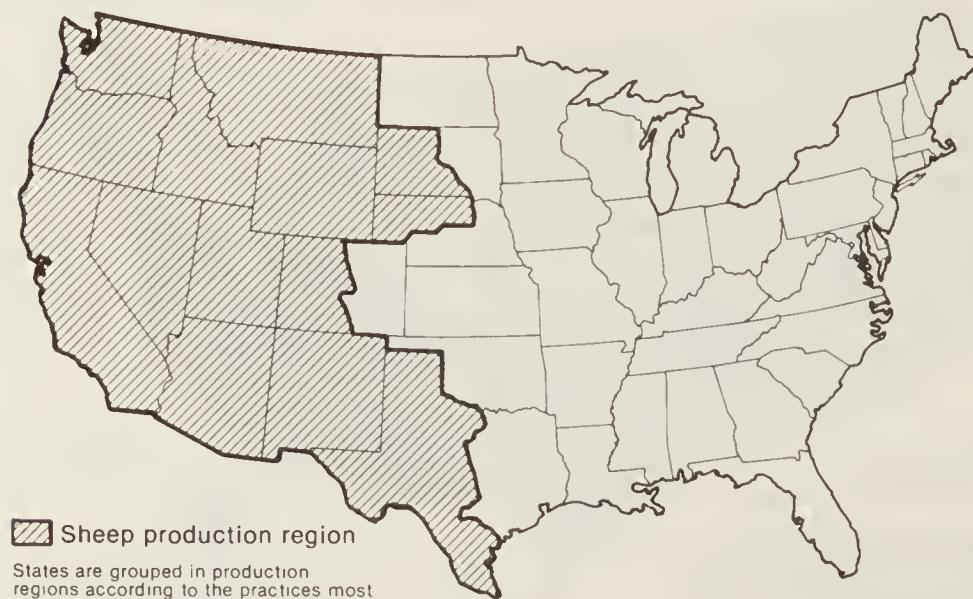


Figure 19

Dairy Production Regions

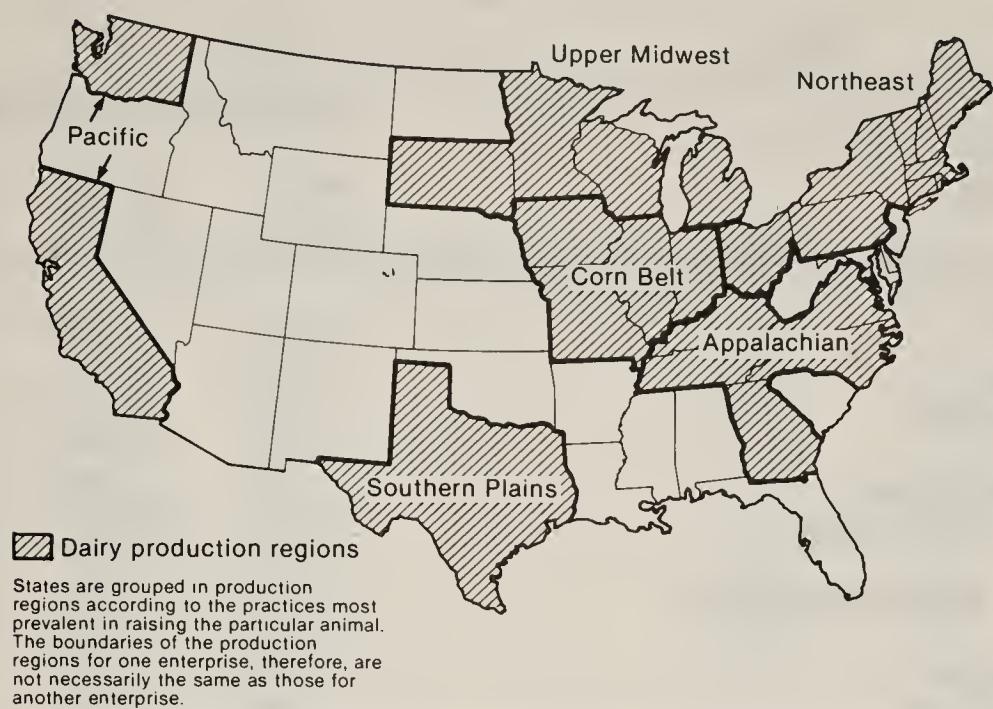


TABLE 1--U.S. CORN PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	260.17	245.55	258.70
TOTAL	260.17	245.55	258.70
=====	=====	=====	=====
CASH EXPENSES:			
SEED	16.16	17.15	17.40
FERTILIZER	51.93	49.29	46.33
LIME AND GYPSUM	1.48	1.44	1.51
CHEMICALS	15.56	16.62	17.43
CUSTOM OPERATIONS	5.43	5.69	5.56
FUEL AND LUBRICATION	20.17	20.11	17.69
REPAIRS	11.98	13.24	13.26
PURCHASED IRRIGATION WATER	.15	.17	.20
DRYING	8.30	8.38	6.32
MISCELLANEOUS	.01	.01	.01
MANAGEMENT FEES	.05	.05	.06
TOTAL, VARIABLE EXPENSES	131.22	132.15	125.77
GENERAL FARM OVERHEAD	15.43	16.11	16.39
TAXES AND INSURANCE	14.92	16.55	17.23
INTEREST	41.93	49.43	51.24
TOTAL, FIXED EXPENSES	72.28	82.09	84.85
TOTAL, CASH EXPENSES	203.50	214.24	210.62
RECEIPTS LESS CASH EXPENSES	56.67	31.31	48.07
CAPITAL REPLACEMENT	28.01	30.90	31.65
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	28.66	.41	16.43
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	131.22	132.15	125.77
GENERAL FARM OVERHEAD	15.43	16.11	16.39
TAXES AND INSURANCE	14.92	16.55	17.23
CAPITAL REPLACEMENT	28.01	30.90	31.65
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	7.42	6.00	4.64
RETURN TO OTHER NONLAND CAPITAL	11.07	12.24	12.27
NET LAND RENT	61.32	61.43	61.43
LABOR (PAID AND UNPAID) <u>3/</u>	14.87	15.33	14.50
TOTAL, ECONOMIC COSTS	284.26	290.71	283.88
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-24.09	-45.16	-25.18
NET RETURNS TO OWNED INPUTS	70.59	49.84	67.66
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.38	2.14	3.21
YIELD (BU./PLANTED ACRE)	109.28	114.66	80.50

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 2--CORN PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	268.66	252.07	258.37
TOTAL	268.66	252.07	258.37
<hr/>			
CASH EXPENSES:			
SEED	16.64	17.65	18.24
FERTILIZER	55.01	52.93	48.49
LIME AND GYPSUM	1.54	1.57	1.67
CHEMICALS	16.47	17.62	18.48
CUSTOM OPERATIONS	4.76	5.04	4.74
FUEL AND LUBRICATION	15.19	15.17	12.38
REPAIRS	10.15	11.26	11.00
DRYING	9.80	9.87	7.34
TOTAL, VARIABLE EXPENSES	129.56	131.11	122.34
GENERAL FARM OVERHEAD	15.38	16.58	16.88
TAXES AND INSURANCE	15.99	17.93	18.76
INTEREST	43.17	50.68	52.67
TOTAL, FIXED EXPENSES	74.54	85.19	88.31
TOTAL, CASH EXPENSES	204.10	216.30	210.65
RECEIPTS LESS CASH EXPENSES	64.56	35.77	47.72
CAPITAL REPLACEMENT	25.04	27.61	27.92
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	39.52	8.16	19.80
<hr/>			
ECONOMIC COSTS:			
VARIABLE EXPENSES	129.56	131.11	122.34
GENERAL FARM OVERHEAD	15.38	16.58	16.88
TAXES AND INSURANCE	15.99	17.93	18.76
CAPITAL REPLACEMENT	25.04	27.61	27.92
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	7.44	6.04	4.61
RETURN TO OTHER NONLAND CAPITAL	9.96	11.00	10.92
NET LAND RENT	68.96	70.02	68.61
LABOR (PAID AND UNPAID) <u>3/</u>	13.73	13.92	12.71
TOTAL, ECONOMIC COSTS	286.06	294.21	282.75
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-17.40	-42.14	-24.38
NET RETURNS TO OWNED INPUTS	82.69	58.84	72.47
<hr/>			
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.32	2.09	3.17
YIELD (BU./PLANTED ACRE)	115.68	120.79	81.56

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 3--CORN PRODUCTION COSTS, NORTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	241.99	216.99	278.92
TOTAL	241.99	216.99	278.92
<hr/>			
CASH EXPENSES:			
SEED	14.60	16.36	15.98
FERTILIZER	56.82	50.90	50.23
LIME AND GYPSUM	1.63	1.72	1.70
CHEMICALS	16.55	17.75	18.66
CUSTOM OPERATIONS	6.95	7.37	7.24
FUEL AND LUBRICATION	16.04	15.19	13.50
REPAIRS	9.78	10.69	10.81
DRYING	8.28	8.15	7.24
TOTAL, VARIABLE EXPENSES	130.65	128.13	125.36
GENERAL FARM OVERHEAD	21.86	14.80	15.09
TAXES AND INSURANCE	14.40	14.28	16.15
INTEREST	33.94	42.87	44.56
TOTAL, FIXED EXPENSES	70.20	71.95	75.80
TOTAL, CASH EXPENSES	200.85	200.08	201.16
RECEIPTS LESS CASH EXPENSES	41.14	16.91	77.76
CAPITAL REPLACEMENT	23.51	25.68	26.49
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	17.63	-8.77	51.27
<hr/>			
ECONOMIC COSTS:			
VARIABLE EXPENSES	130.65	128.13	125.36
GENERAL FARM OVERHEAD	21.86	14.80	15.09
TAXES AND INSURANCE	14.40	14.28	16.15
CAPITAL REPLACEMENT	23.51	25.68	26.49
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	6.97	5.54	4.40
RETURN TO OTHER NONLAND CAPITAL	9.24	10.09	10.25
NET LAND RENT	28.60	30.27	32.41
LABOR (PAID AND UNPAID) <u>3/</u>	16.67	17.65	17.16
TOTAL, ECONOMIC COSTS	251.90	246.44	247.31
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-9.91	-29.45	31.61
NET RETURNS TO OWNED INPUTS	51.57	34.10	95.83
<hr/>			
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.52	2.24	3.79
YIELD (BU./PLANTED ACRE)	95.98	96.84	73.66

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 4--CORN PRODUCTION COSTS, NORTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	256.86	235.75	271.41
TOTAL	256.86	235.75	271.41
CASH EXPENSES:			
SEED	15.97	16.64	15.88
FERTILIZER	31.67	29.50	30.49
LIME AND GYPSUM	.04	.07	.06
CHEMICALS	10.21	10.87	11.53
CUSTOM OPERATIONS	4.08	4.45	4.35
FUEL AND LUBRICATION	42.02	40.28	37.17
REPAIRS	21.30	22.48	23.45
PURCHASED IRRIGATION WATER	.41	.45	.47
DRYING	5.79	5.21	4.85
TOTAL, VARIABLE EXPENSES	131.49	129.95	128.25
GENERAL FARM OVERHEAD	16.89	16.09	16.50
TAXES AND INSURANCE	16.37	16.91	18.02
INTEREST	45.31	49.17	51.42
TOTAL, FIXED EXPENSES	78.57	82.17	85.94
TOTAL, CASH EXPENSES	210.06	212.12	214.19
RECEIPTS LESS CASH EXPENSES	46.80	23.63	57.22
CAPITAL REPLACEMENT	45.70	48.58	51.14
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	1.10	-24.95	6.08
ECONOMIC COSTS:			
VARIABLE EXPENSES	131.49	129.95	128.25
GENERAL FARM OVERHEAD	16.89	16.09	16.50
TAXES AND INSURANCE	16.37	16.91	18.02
CAPITAL REPLACEMENT	45.70	48.58	51.14
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	7.11	5.74	4.53
RETURN TO OTHER NONLAND CAPITAL	18.26	19.36	20.02
NET LAND RENT	50.48	43.50	54.87
LABOR (PAID AND UNPAID) <u>3/</u>	17.90	19.06	18.74
TOTAL, ECONOMIC COSTS	304.20	299.19	312.07
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-47.34	-63.44	-40.66
NET RETURNS TO OWNED INPUTS	46.41	24.22	57.50
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.41	2.28	3.10
YIELD (BU./PLANTED ACRE)	106.66	103.39	87.65

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 5--CORN PRODUCTION COSTS, SOUTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	191.38	203.30	205.96
TOTAL	191.38	203.30	205.96
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CASH EXPENSES:			
SEED	14.52	15.42	15.28
FERTILIZER	60.39	56.22	56.86
LIME AND GYPSUM	3.48	3.26	3.24
CHEMICALS	16.87	18.44	19.26
CUSTOM OPERATIONS	9.84	10.46	9.93
FUEL AND LUBRICATION	16.73	16.46	13.61
REPAIRS	9.66	11.27	10.46
DRYING	3.28	4.09	2.36
MISCELLANEOUS	.12	.12	.10
MANAGEMENT FEES	.20	.22	.17
TOTAL, VARIABLE EXPENSES	135.09	135.96	131.27
GENERAL FARM OVERHEAD	9.42	11.01	11.07
TAXES AND INSURANCE	6.54	7.10	7.08
INTEREST	28.75	42.84	44.03
TOTAL, FIXED EXPENSES	44.71	60.95	62.18
TOTAL, CASH EXPENSES	179.80	196.91	193.45
RECEIPTS LESS CASH EXPENSES	11.58	6.39	12.51
CAPITAL REPLACEMENT	21.25	24.46	23.92
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-9.67	-18.07	-11.41
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ECONOMIC COSTS:			
VARIABLE EXPENSES	135.09	135.96	131.27
GENERAL FARM OVERHEAD	9.42	11.01	11.07
TAXES AND INSURANCE	6.54	7.10	7.08
CAPITAL REPLACEMENT	21.25	24.46	23.92
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	7.44	5.82	4.66
RETURN TO OTHER NONLAND CAPITAL	7.90	9.28	8.68
NET LAND RENT	39.52	38.99	33.45
LABOR (PAID AND UNPAID) <u>3/</u>	15.14	15.66	15.30
TOTAL, ECONOMIC COSTS	242.30	248.28	235.43
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-50.92	-44.98	-29.47
NET RETURNS TO OWNED INPUTS	19.08	24.77	32.62
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HARVEST PERIOD PRICE (DOLLARS/BU.)	2.62	2.14	3.67
YIELD (BU./PLANTED ACRE)	73.13	95.19	56.09

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 6--CORN PRODUCTION COSTS, SOUTHWEST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	382.14	327.02	331.10
TOTAL	382.14	327.02	331.10
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CASH EXPENSES:			
SEED	12.80	13.26	15.11
FERTILIZER	53.40	52.64	48.80
LIME AND GYPSUM	.34	.41	.44
CHEMICALS	17.81	19.09	19.74
CUSTOM OPERATIONS	14.62	15.15	15.54
FUEL AND LUBRICATION	46.82	49.86	50.84
REPAIRS	18.08	19.32	20.31
PURCHASED IRRIGATION WATER	4.48	4.80	4.62
DRYING	1.29	1.36	1.34
MANAGEMENT FEES	1.69	1.76	1.64
TOTAL, VARIABLE EXPENSES	171.33	177.65	178.38
GENERAL FARM OVERHEAD	23.25	23.58	23.13
TAXES AND INSURANCE	9.43	9.59	9.53
INTEREST	55.34	48.16	49.02
TOTAL, FIXED EXPENSES	88.02	81.33	81.68
TOTAL, CASH EXPENSES	259.35	258.98	260.06
RECEIPTS LESS CASH EXPENSES	122.79	68.04	71.04
CAPITAL REPLACEMENT	34.40	37.05	38.91
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	88.39	30.99	32.13
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ECONOMIC COSTS:			
VARIABLE EXPENSES	171.33	177.65	178.38
GENERAL FARM OVERHEAD	23.25	23.58	23.13
TAXES AND INSURANCE	9.43	9.59	9.53
CAPITAL REPLACEMENT	34.40	37.05	38.91
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	10.01	8.35	6.57
RETURN TO OTHER NONLAND CAPITAL	12.29	13.17	13.63
NET LAND RENT	58.02	62.66	62.58
LABOR (PAID AND UNPAID) <u>3/</u>	25.90	27.50	26.20
TOTAL, ECONOMIC COSTS	344.63	359.55	358.93
RESIDUAL RETURNS TO MANAGEMENT AND RISK	37.51	-32.53	-27.83
NET RETURNS TO OWNED INPUTS	143.73	79.15	81.15
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.24	2.99	3.25
YIELD (BU./PLANTED ACRE)	117.90	109.35	101.93

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 7--U.S. SORGHUM PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	141.50	121.78	130.87
TOTAL	141.50	121.78	130.87
=====	=====	=====	=====
CASH EXPENSES:			
SEED	3.18	3.75	3.93
FERTILIZER	18.61	18.61	17.69
LIME AND GYPSUM	.03	.03	.06
CHEMICALS	7.26	7.78	8.33
CUSTOM OPERATIONS	3.45	3.91	3.76
FUEL AND LUBRICATION	19.26	19.91	18.51
REPAIRS	11.76	12.77	13.36
PURCHASED IRRIGATION WATER	.25	.30	.27
DRYING	.79	.64	.55
MANAGEMENT FEES	.18	.22	.19
TOTAL, VARIABLE EXPENSES	64.77	67.92	66.65
GENERAL FARM OVERHEAD	9.13	8.16	8.31
TAXES AND INSURANCE	8.47	8.23	8.55
INTEREST	23.34	22.57	23.91
TOTAL, FIXED EXPENSES	40.94	38.96	40.77
TOTAL, CASH EXPENSES	105.71	106.88	107.42
RECEIPTS LESS CASH EXPENSES	35.79	14.90	23.45
CAPITAL REPLACEMENT	27.26	29.36	31.04
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	8.53	-14.46	-7.59
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	64.77	67.92	66.65
GENERAL FARM OVERHEAD	9.13	8.16	8.31
TAXES AND INSURANCE	8.47	8.23	8.55
CAPITAL REPLACEMENT	27.26	29.36	31.04
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.33	2.85	2.21
RETURN TO OTHER NONLAND CAPITAL	10.21	10.84	11.28
NET LAND RENT	31.51	26.39	28.30
LABOR (PAID AND UNPAID) <u>3/</u>	13.36	14.52	13.66
TOTAL, ECONOMIC COSTS	168.04	168.27	170.00
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-26.54	-46.49	-39.13
NET RETURNS TO OWNED INPUTS	31.87	8.11	16.32
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.25	2.10	2.85
YIELD (BU./PLANTED ACRE)	62.95	57.88	45.89

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 8--SORGHUM PRODUCTION COSTS, CENTRAL PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	141.56	126.40	125.32
TOTAL	141.56	126.40	125.32
CASH EXPENSES:			
SEED	2.83	3.29	3.53
FERTILIZER	17.57	17.98	16.70
CHEMICALS	7.53	8.11	8.60
CUSTOM OPERATIONS	2.20	2.34	2.47
FUEL AND LUBRICATION	17.70	17.71	16.69
REPAIRS	12.97	14.38	14.67
DRYING	1.26	1.14	.88
TOTAL, VARIABLE EXPENSES	62.06	64.95	63.54
GENERAL FARM OVERHEAD	8.75	8.75	8.84
TAXES AND INSURANCE	10.56	10.72	10.68
INTEREST	23.27	26.98	27.81
TOTAL, FIXED EXPENSES	42.58	46.45	47.33
TOTAL, CASH EXPENSES	104.64	111.40	110.87
RECEIPTS LESS CASH EXPENSES	36.92	15.00	14.45
CAPITAL REPLACEMENT	31.00	34.37	35.17
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	5.92	-19.37	-20.72
ECONOMIC COSTS:			
VARIABLE EXPENSES	62.06	64.95	63.54
GENERAL FARM OVERHEAD	8.75	8.75	8.84
TAXES AND INSURANCE	10.56	10.72	10.68
CAPITAL REPLACEMENT	31.00	34.37	35.17
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.06	2.62	2.07
RETURN TO OTHER NONLAND CAPITAL	12.15	13.41	13.38
NET LAND RENT	31.13	25.38	24.99
LABOR (PAID AND UNPAID) <u>3/</u>	12.08	12.94	12.15
TOTAL, ECONOMIC COSTS	170.79	173.14	170.82
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-29.23	-46.74	-45.50
NET RETURNS TO OWNED INPUTS	29.19	7.61	7.09
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.12	2.01	2.79
YIELD (BU./PLANTED ACRE)	66.65	62.88	44.85

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 9--SORGHUM PRODUCTION COSTS, SOUTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	139.64	115.95	135.47
TOTAL	139.64	115.95	135.47
=====	=====	=====	=====
CASH EXPENSES:			
SEED	3.49	4.06	4.30
FERTILIZER	19.69	18.98	18.75
LIME AND GYPSUM	.08	.07	.13
CHEMICALS	6.81	7.37	7.91
CUSTOM OPERATIONS	4.82	5.18	5.18
FUEL AND LUBRICATION	20.83	21.75	20.53
REPAIRS	10.03	11.07	11.60
PURCHASED IRRIGATION WATER	.42	.49	.50
DRYING	.17	.14	.14
MISCELLANEOUS	.01	.01	.01
MANAGEMENT FEES	.42	.44	.42
TOTAL, VARIABLE EXPENSES	66.77	69.56	69.47
GENERAL FARM OVERHEAD	9.48	7.31	7.41
TAXES AND INSURANCE	5.33	5.52	5.64
INTEREST	23.05	17.90	18.71
TOTAL, FIXED EXPENSES	37.86	30.73	31.76
TOTAL, CASH EXPENSES	104.63	100.29	101.23
RECEIPTS LESS CASH EXPENSES	35.01	15.66	34.24
CAPITAL REPLACEMENT	21.98	24.15	25.56
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	13.03	-8.49	8.68
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	66.77	69.56	69.47
GENERAL FARM OVERHEAD	9.48	7.31	7.41
TAXES AND INSURANCE	5.33	5.52	5.64
CAPITAL REPLACEMENT	21.98	24.15	25.56
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.60	3.03	2.33
RETURN TO OTHER NONLAND CAPITAL	7.51	8.20	8.52
NET LAND RENT	31.87	26.86	31.84
LABOR (PAID AND UNPAID) 3/	14.50	15.61	15.16
TOTAL, ECONOMIC COSTS	161.04	160.24	165.93
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-21.40	-44.29	-30.46
NET RETURNS TO OWNED INPUTS	36.08	9.41	27.39
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.42	2.21	2.90
YIELD (BU./PLANTED ACRE)	57.60	52.49	46.65

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 10--SORGHUM PRODUCTION COSTS, SOUTHWEST, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	210.18	180.03	281.07
TOTAL	210.18	180.03	281.07
CASH EXPENSES:			
SEED	9.75	11.70	13.09
FERTILIZER	31.96	34.11	30.62
CHEMICALS	10.33	11.30	11.86
CUSTOM OPERATIONS	16.51	18.84	19.83
FUEL AND LUBRICATION	40.72	39.10	37.45
REPAIRS	15.34	16.46	17.67
PURCHASED IRRIGATION WATER	7.23	6.31	6.48
DRYING	.09	.08	.09
MANAGEMENT FEES	.60	.73	.73
TOTAL, VARIABLE EXPENSES	132.53	138.63	137.82
GENERAL FARM OVERHEAD	15.22	20.78	21.17
TAXES AND INSURANCE	20.13	17.68	17.75
INTEREST	38.07	33.16	34.47
TOTAL, FIXED EXPENSES	73.42	71.62	73.39
TOTAL, CASH EXPENSES	205.95	210.25	211.21
RECEIPTS LESS CASH EXPENSES	4.23	-30.22	69.86
CAPITAL REPLACEMENT	34.53	36.38	39.03
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-30.30	-66.60	30.83
ECONOMIC COSTS:			
VARIABLE EXPENSES	132.53	138.63	137.82
GENERAL FARM OVERHEAD	15.22	20.78	21.17
TAXES AND INSURANCE	20.13	17.68	17.75
CAPITAL REPLACEMENT	34.53	36.38	39.03
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	7.41	6.21	4.83
RETURN TO OTHER NONLAND CAPITAL	12.47	12.97	13.80
NET LAND RENT	37.50	54.14	70.52
LABOR (PAID AND UNPAID) <u>3/</u>	36.99	40.00	39.84
TOTAL, ECONOMIC COSTS	296.78	326.79	344.76
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-86.60	-146.76	-63.69
NET RETURNS TO OWNED INPUTS	7.77	-33.44	65.30
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.80	2.41	3.52
YIELD (BU./PLANTED ACRE)	75.10	74.70	79.85

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 11--U.S. BARLEY PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	119.99	117.28	116.25
SECONDARY CROP	4.81	4.60	4.54
TOTAL	124.80	121.88	120.79
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CASH EXPENSES:			
SEED	7.55	6.53	5.50
FERTILIZER	14.80	15.18	13.51
LIME AND GYPSUM	.05	.04	.04
CHEMICALS	4.11	4.37	4.42
CUSTOM OPERATIONS	2.02	2.30	1.92
FUEL AND LUBRICATION	14.84	15.21	13.88
REPAIRS	10.56	11.77	12.23
PURCHASED IRRIGATION WATER	1.55	1.56	1.36
MISCELLANEOUS	.21	.23	.21
MANAGEMENT FEES	.48	.45	.36
TOTAL, VARIABLE EXPENSES	56.17	57.64	53.43
GENERAL FARM OVERHEAD	9.35	8.48	8.22
TAXES AND INSURANCE	9.17	8.65	9.39
INTEREST	25.88	20.88	21.00
TOTAL, FIXED EXPENSES	44.40	38.01	38.61
TOTAL, CASH EXPENSES	100.57	95.65	92.04
RECEIPTS LESS CASH EXPENSES	24.23	26.23	28.75
CAPITAL REPLACEMENT	25.01	27.81	29.22
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-.78	-1.58	-.47
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ECONOMIC COSTS:			
VARIABLE EXPENSES	56.17	57.64	53.43
GENERAL FARM OVERHEAD	9.35	8.48	8.22
TAXES AND INSURANCE	9.17	8.65	9.39
CAPITAL REPLACEMENT	25.01	27.81	29.22
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.24	1.82	1.37
RETURN TO OTHER NONLAND CAPITAL	9.42	10.50	10.94
NET LAND RENT	28.88	29.39	30.01
LABOR (PAID AND UNPAID) <u>3/</u>	11.15	11.85	12.28
TOTAL, ECONOMIC COSTS	151.39	156.14	154.86
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-26.59	-34.26	-34.07
NET RETURNS TO OWNED INPUTS	25.10	19.30	20.53
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HARVEST PERIOD PRICE (DOLLARS/BU.)	2.42	2.15	2.34
YIELD (BU./PLANTED ACRE)	49.61	54.61	49.79

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 12--BARLEY PRODUCTION COSTS, NORTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	104.98	97.84	112.93
SECONDARY CROP	73.50	78.40	67.62
TOTAL	178.48	176.24	180.55
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CASH EXPENSES:			
SEED	9.26	9.15	8.60
FERTILIZER	22.02	21.52	19.25
LIME AND GYPSUM	4.64	4.88	4.84
CHEMICALS	.17	.18	.19
CUSTOM OPERATIONS	5.81	6.63	6.66
FUEL AND LUBRICATION	15.04	14.53	13.43
REPAIRS	9.00	9.95	10.61
MISCELLANEOUS	1.94	2.05	1.90
TOTAL, VARIABLE EXPENSES	67.88	68.89	65.48
GENERAL FARM OVERHEAD	9.55	5.66	5.76
TAXES AND INSURANCE	15.18	17.48	19.71
INTEREST	14.84	16.39	17.03
TOTAL, FIXED EXPENSES	39.57	39.53	42.50
TOTAL, CASH EXPENSES	107.45	108.42	107.98
RECEIPTS LESS CASH EXPENSES	71.03	67.82	72.57
CAPITAL REPLACEMENT	20.93	23.49	24.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	50.10	44.33	47.75
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ECONOMIC COSTS:			
VARIABLE EXPENSES	67.88	68.89	65.48
GENERAL FARM OVERHEAD	9.55	5.66	5.76
TAXES AND INSURANCE	15.18	17.48	19.71
CAPITAL REPLACEMENT	20.93	23.49	24.82
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.31	1.92	1.44
RETURN TO OTHER NONLAND CAPITAL	8.19	9.17	9.61
NET LAND RENT	19.02	32.30	30.67
LABOR (PAID AND UNPAID) 3/	18.86	21.69	21.13
TOTAL, ECONOMIC COSTS	161.92	180.60	178.62
RESIDUAL RETURNS TO MANAGEMENT AND RISK	16.56	-4.36	1.93
NET RETURNS TO OWNED INPUTS	64.94	60.72	64.78
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HARVEST PERIOD PRICE (DOLLARS/BU.)	2.20	1.96	2.20
YIELD (BU./PLANTED ACRE)	47.72	49.92	51.33

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 13--BARLEY PRODUCTION COSTS, NORTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	99.39	91.64	91.91
SECONDARY CROP	4.31	3.71	3.78
TOTAL	103.70	95.35	95.69
CASH EXPENSES:			
SEED	6.04	5.00	4.14
FERTILIZER	12.50	12.19	10.86
CHEMICALS	3.34	3.47	3.51
CUSTOM OPERATIONS	.38	.64	.56
FUEL AND LUBRICATION	12.16	12.03	10.76
REPAIRS	9.83	10.84	11.34
PURCHASED IRRIGATION WATER	.30	.32	.28
MISCELLANEOUS	.21	.24	.21
TOTAL, VARIABLE EXPENSES	44.76	44.73	41.66
GENERAL FARM OVERHEAD	7.81	5.88	5.87
TAXES AND INSURANCE	7.23	7.80	8.01
INTEREST	22.35	17.22	17.68
TOTAL, FIXED EXPENSES	37.39	30.90	31.56
TOTAL, CASH EXPENSES	82.15	75.63	73.22
RECEIPTS LESS CASH EXPENSES	21.55	19.72	22.47
CAPITAL REPLACEMENT	23.66	26.06	27.37
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-2.11	-6.34	-4.90
ECONOMIC COSTS:			
VARIABLE EXPENSES	44.76	44.73	41.66
GENERAL FARM OVERHEAD	7.81	5.88	5.87
TAXES AND INSURANCE	7.23	7.80	8.01
CAPITAL REPLACEMENT	23.66	26.06	27.37
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	1.71	1.37	1.07
RETURN TO OTHER NONLAND CAPITAL	9.04	9.99	10.36
NET LAND RENT	29.55	29.09	29.23
LABOR (PAID AND UNPAID) <u>3/</u>	9.15	9.85	10.23
TOTAL, ECONOMIC COSTS	132.91	134.77	133.80
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-29.21	-39.42	-38.11
NET RETURNS TO OWNED INPUTS	20.24	10.88	12.78
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.18	1.82	2.09
YIELD (BU./PLANTED ACRE)	45.69	50.32	43.91

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 14--BARLEY PRODUCTION COSTS, NORTHWEST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	148.38	162.95	164.63
SECONDARY CROP	2.47	3.18	3.25
TOTAL	150.85	166.13	167.88
CASH EXPENSES:			
SEED	9.16	7.84	7.13
FERTILIZER	17.71	19.21	18.14
CHEMICALS	5.57	6.13	6.44
CUSTOM OPERATIONS	.91	.92	.97
FUEL AND LUBRICATION	18.62	19.17	19.70
REPAIRS	12.71	14.21	14.94
PURCHASED IRRIGATION WATER	.78	.81	.77
MISCELLANEOUS	.14	.16	.14
TOTAL, VARIABLE EXPENSES	65.60	68.45	68.23
GENERAL FARM OVERHEAD	11.46	11.88	12.20
TAXES AND INSURANCE	11.70	8.61	11.55
INTEREST	31.35	26.01	26.61
TOTAL, FIXED EXPENSES	54.51	46.50	50.36
TOTAL, CASH EXPENSES	120.11	114.95	118.59
RECEIPTS LESS CASH EXPENSES	30.74	51.18	49.29
CAPITAL REPLACEMENT	31.07	34.52	36.54
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	- .33	16.66	12.75
ECONOMIC COSTS:			
VARIABLE EXPENSES	65.60	68.45	68.23
GENERAL FARM OVERHEAD	11.46	11.88	12.20
TAXES AND INSURANCE	11.70	8.61	11.55
CAPITAL REPLACEMENT	31.07	34.52	36.54
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.34	1.91	1.53
RETURN TO OTHER NONLAND CAPITAL	11.59	12.91	13.54
NET LAND RENT	26.44	28.94	30.22
LABOR (PAID AND UNPAID) <u>3/</u>	12.48	12.49	14.24
TOTAL, ECONOMIC COSTS	172.68	179.71	188.05
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-21.83	-13.58	-20.17
NET RETURNS TO OWNED INPUTS	31.02	42.67	39.36
HARVEST PERIOD PRICE (DOLLARS/BU.)	2.63	2.61	2.63
YIELD (BU./PLANTED ACRE)	56.36	62.45	62.58

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 15--BARLEY PRODUCTION COSTS, SOUTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	144.32	140.53	155.21
SECONDARY CROP	15.22	17.38	17.12
TOTAL	159.54	157.91	172.33
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CASH EXPENSES:			
SEED	6.91	7.17	7.36
FERTILIZER	20.64	22.23	21.33
CHEMICALS	4.55	5.02	5.38
CUSTOM OPERATIONS	1.41	1.56	1.30
FUEL AND LUBRICATION	20.02	21.70	21.55
REPAIRS	10.03	11.43	12.41
PURCHASED IRRIGATION WATER	9.80	10.39	11.00
MISCELLANEOUS	.46	.51	.49
TOTAL, VARIABLE EXPENSES	73.82	80.01	80.82
GENERAL FARM OVERHEAD	14.98	10.81	11.25
TAXES AND INSURANCE	7.43	8.27	8.91
INTEREST	44.31	31.49	33.55
TOTAL, FIXED EXPENSES	66.72	50.57	53.71
TOTAL, CASH EXPENSES	140.54	130.58	134.53
RECEIPTS LESS CASH EXPENSES	19.00	27.33	37.80
CAPITAL REPLACEMENT	25.10	28.34	30.68
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.10	-1.01	7.12
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ECONOMIC COSTS:			
VARIABLE EXPENSES	73.82	80.01	80.82
GENERAL FARM OVERHEAD	14.98	10.81	11.25
TAXES AND INSURANCE	7.43	8.27	8.91
CAPITAL REPLACEMENT	25.10	28.34	30.68
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.98	2.62	2.03
RETURN TO OTHER NONLAND CAPITAL	9.59	10.89	11.73
NET LAND RENT	36.71	34.83	37.72
LABOR (PAID AND UNPAID) <u>3/</u>	20.81	26.89	27.83
TOTAL, ECONOMIC COSTS	191.42	202.66	210.97
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-31.88	-44.75	-38.64
NET RETURNS TO OWNED INPUTS	38.21	30.48	40.67
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HARVEST PERIOD PRICE (DOLLARS/BU.)	.2.64	2.22	2.33
YIELD (BU./PLANTED ACRE)	54.70	63.32	66.52

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 16--BARLEY PRODUCTION COSTS, SOUTHWEST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	177.27	156.51	175.23
SECONDARY CROP	2.15	2.81	2.77
TOTAL	179.42	159.32	178.00
CASH EXPENSES:			
SEED	13.75	12.91	12.37
FERTILIZER	19.41	21.01	19.86
CHEMICALS	5.75	5.75	6.46
CUSTOM OPERATIONS	16.32	17.80	19.10
FUEL AND LUBRICATION	20.86	23.47	21.52
REPAIRS	10.22	11.44	11.89
PURCHASED IRRIGATION WATER	8.57	9.10	9.91
MISCELLANEOUS	.14	.15	.15
MANAGEMENT FEES	5.39	5.14	5.65
TOTAL, VARIABLE EXPENSES	100.41	106.77	106.91
GENERAL FARM OVERHEAD	11.77	16.16	17.04
TAXES AND INSURANCE	16.09	13.93	14.82
INTEREST	28.28	27.89	29.45
TOTAL, FIXED EXPENSES	56.14	57.98	61.31
TOTAL, CASH EXPENSES	156.55	164.75	168.22
RECEIPTS LESS CASH EXPENSES	22.87	-5.43	9.78
CAPITAL REPLACEMENT	18.58	20.82	21.68
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	4.29	-26.25	-11.90
ECONOMIC COSTS:			
VARIABLE EXPENSES	100.41	106.77	106.91
GENERAL FARM OVERHEAD	11.77	16.16	17.04
TAXES AND INSURANCE	16.09	13.93	14.82
CAPITAL REPLACEMENT	18.58	20.82	21.68
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.30	4.41	3.49
RETURN TO OTHER NONLAND CAPITAL	6.32	7.08	7.29
NET LAND RENT	28.18	30.45	33.24
LABOR (PAID AND UNPAID) <u>3/</u>	16.05	17.23	17.42
TOTAL, ECONOMIC COSTS	202.70	216.85	221.89
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-23.28	-57.53	-43.89
NET RETURNS TO OWNED INPUTS	32.57	1.64	17.55
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.13	2.66	3.14
YIELD (BU./PLANTED ACRE)	56.57	58.90	55.84

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 17--U.S. OATS PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	91.15	79.58	72.68
SECONDARY CROP	30.22	27.06	25.44
TOTAL	121.37	106.64	98.12
CASH EXPENSES:			
SEED	7.13	7.05	5.66
FERTILIZER	9.26	8.80	7.83
LIME AND GYPSUM	1.10	1.08	1.00
CHEMICALS	.95	1.00	1.05
CUSTOM OPERATIONS	3.75	3.84	3.82
FUEL AND LUBRICATION	11.70	11.38	10.27
REPAIRS	7.71	8.40	8.91
MISCELLANEOUS	1.22	1.25	1.14
TOTAL, VARIABLE EXPENSES	42.82	42.80	39.68
GENERAL FARM OVERHEAD	6.57	4.75	4.83
TAXES AND INSURANCE	10.65	11.74	12.38
INTEREST	17.82	13.83	14.30
TOTAL, FIXED EXPENSES	35.04	30.32	31.51
TOTAL, CASH EXPENSES	77.86	73.12	71.19
RECEIPTS LESS CASH EXPENSES	43.51	33.52	26.93
CAPITAL REPLACEMENT	18.39	19.82	21.14
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	25.12	13.70	5.79
ECONOMIC COSTS:			
VARIABLE EXPENSES	42.82	42.80	39.68
GENERAL FARM OVERHEAD	6.57	4.75	4.83
TAXES AND INSURANCE	10.65	11.74	12.38
CAPITAL REPLACEMENT	18.39	19.82	21.14
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	1.60	1.28	.95
RETURN TO OTHER NONLAND CAPITAL	7.11	7.69	8.10
NET LAND RENT	23.52	33.43	30.52
LABOR (PAID AND UNPAID) 3/	12.74	13.23	13.00
TOTAL, ECONOMIC COSTS	123.40	134.74	130.60
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-2.03	-28.10	-32.48
NET RETURNS TO OWNED INPUTS	42.94	27.53	20.09
HARVEST PERIOD PRICE (DOLLARS/BU.)	1.73	1.41	1.45
YIELD (BU./PLANTED ACRE)	52.84	56.48	50.11

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 18--OATS PRODUCTION COSTS, LAKE STATES AND CORN BELT, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	103.47	80.69	80.17
SECONDARY CROP	33.23	34.34	34.55
TOTAL	136.70	115.03	114.72
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CASH EXPENSES:			
SEED	7.54	7.80	6.42
FERTILIZER	10.83	10.55	9.51
LIME AND GYPSUM	1.80	1.82	1.78
CHEMICALS	.80	.86	.90
CUSTOM OPERATIONS	3.55	3.56	3.71
FUEL AND LUBRICATION	13.70	13.41	12.37
REPAIRS	8.39	8.97	9.63
MISCELLANEOUS	1.54	1.62	1.50
TOTAL, VARIABLE EXPENSES	48.15	48.59	45.82
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GENERAL FARM OVERHEAD	7.46	5.17	5.37
TAXES AND INSURANCE	13.02	14.80	16.44
INTEREST	22.08	14.57	15.30
TOTAL, FIXED EXPENSES	42.56	34.54	37.11
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TOTAL, CASH EXPENSES	90.71	83.13	82.93
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RECEIPTS LESS CASH EXPENSES	45.99	31.90	31.79
CAPITAL REPLACEMENT	19.76	20.88	22.58
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	26.23	11.02	9.21
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ECONOMIC COSTS:			
VARIABLE EXPENSES	48.15	48.59	45.82
GENERAL FARM OVERHEAD	7.46	5.17	5.37
TAXES AND INSURANCE	13.02	14.80	16.44
CAPITAL REPLACEMENT	19.76	20.88	22.58
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	1.80	1.48	1.10
RETURN TO OTHER NONLAND CAPITAL	7.66	8.10	8.66
NET LAND RENT	28.12	42.32	40.53
LABOR (PAID AND UNPAID) 3/	14.93	15.44	15.03
TOTAL, ECONOMIC COSTS	140.90	156.78	155.53
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RESIDUAL RETURNS TO MANAGEMENT AND RISK	-4.20	-41.75	-40.81
NET RETURNS TO OWNED INPUTS	48.31	25.59	24.51
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HARVEST PERIOD PRICE (DOLLARS/BU.)	1.72	1.44	1.52
YIELD (BU./PLANTED ACRE)	60.05	55.93	52.73

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 19--OATS PRODUCTION COSTS, NORTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	103.64	92.44	87.46
SECONDARY CROP	62.94	62.43	62.33
TOTAL	166.58	154.87	149.79
CASH EXPENSES:			
SEED	9.25	8.68	7.25
FERTILIZER	21.28	20.83	18.39
LIME AND GYPSUM	1.92	2.04	1.76
CHEMICALS	3.32	3.56	3.73
CUSTOM OPERATIONS	7.35	7.79	7.65
FUEL AND LUBRICATION	15.39	14.55	13.40
REPAIRS	8.65	9.40	9.94
MISCELLANEOUS	1.80	1.91	1.75
TOTAL, VARIABLE EXPENSES	68.96	68.76	63.87
GENERAL FARM OVERHEAD	9.82	5.67	5.79
TAXES AND INSURANCE	13.19	13.87	15.05
INTEREST	15.25	16.43	17.11
TOTAL, FIXED EXPENSES	38.26	35.97	37.95
TOTAL, CASH EXPENSES	107.22	104.73	101.82
RECEIPTS LESS CASH EXPENSES	59.36	50.14	47.97
CAPITAL REPLACEMENT	19.83	21.68	23.23
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	39.53	28.46	24.74
ECONOMIC COSTS:			
VARIABLE EXPENSES	68.96	68.76	63.87
GENERAL FARM OVERHEAD	9.82	5.67	5.79
TAXES AND INSURANCE	13.19	13.87	15.05
CAPITAL REPLACEMENT	19.83	21.68	23.23
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.83	2.32	1.74
RETURN TO OTHER NONLAND CAPITAL	7.83	8.55	9.04
NET LAND RENT	10.82	23.65	21.52
LABOR (PAID AND UNPAID) <u>3/</u>	17.84	19.59	19.94
TOTAL, ECONOMIC COSTS	151.12	164.09	160.18
RESIDUAL RETURNS TO MANAGEMENT AND RISK	15.46	-9.22	-10.39
NET RETURNS TO OWNED INPUTS	54.78	44.89	41.85
HARVEST PERIOD PRICE (DOLLARS/BU.)	1.76	1.53	1.60
YIELD (BU./PLANTED ACRE)	59.01	60.51	54.54

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 20--OATS PRODUCTION COSTS, NORTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	72.15	76.18	62.06
SECONDARY CROP	19.66	12.47	9.75
TOTAL	91.81	88.65	71.81
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CASH EXPENSES:			
SEED	6.17	5.85	4.56
FERTILIZER	4.75	4.75	4.36
CHEMICALS	.69	.76	.82
CUSTOM OPERATIONS	3.33	3.57	3.41
FUEL AND LUBRICATION	8.28	8.35	7.43
REPAIRS	6.60	7.53	7.94
MISCELLANEOUS	.66	.68	.64
TOTAL, VARIABLE EXPENSES	30.48	31.49	29.16
GENERAL FARM OVERHEAD	4.74	4.09	4.08
TAXES AND INSURANCE	6.96	7.60	7.39
INTEREST	12.61	12.51	12.75
TOTAL, FIXED EXPENSES	24.31	24.20	24.22
TOTAL, CASH EXPENSES	54.79	55.69	53.38
RECEIPTS LESS CASH EXPENSES	37.02	32.96	18.43
CAPITAL REPLACEMENT	16.28	18.20	19.22
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	20.74	14.76	-.79
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ECONOMIC COSTS:			
VARIABLE EXPENSES	30.48	31.49	29.16
GENERAL FARM OVERHEAD	4.74	4.09	4.08
TAXES AND INSURANCE	6.96	7.60	7.39
CAPITAL REPLACEMENT	16.28	18.20	19.22
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	1.08	.88	.67
RETURN TO OTHER NONLAND CAPITAL	6.24	7.05	7.33
NET LAND RENT	19.88	23.84	20.51
LABOR (PAID AND UNPAID) <u>3/</u>	8.79	9.49	9.70
TOTAL, ECONOMIC COSTS	94.45	102.64	98.06
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-2.64	-13.99	-26.25
NET RETURNS TO OWNED INPUTS	33.35	27.27	11.96
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HARVEST PERIOD PRICE (DOLLARS/BU.)	1.72	1.35	1.33
YIELD (BU./PLANTED ACRE)	41.95	56.54	46.51

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 21--U.S. WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	114.35	109.86	128.83
SECONDARY CROP	4.61	4.59	5.12
TOTAL	118.96	114.45	133.95
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CASH EXPENSES:			
SEED	7.19	6.60	6.31
FERTILIZER	17.26	16.72	16.32
LIME AND GYPSUM	.35	.40	.42
CHEMICALS	2.41	2.60	2.67
CUSTOM OPERATIONS	4.41	4.65	4.83
FUEL AND LUBRICATION	12.33	12.23	11.68
REPAIRS	7.80	8.48	9.26
PURCHASED IRRIGATION WATER	.30	.30	.31
MISCELLANEOUS	.11	.10	.11
MANAGEMENT FEES	.13	.14	.14
TOTAL, VARIABLE EXPENSES	52.29	52.22	52.05
GENERAL FARM OVERHEAD	7.39	7.04	7.35
TAXES AND INSURANCE	7.39	7.39	8.28
INTEREST	19.81	19.04	20.23
TOTAL, FIXED EXPENSES	34.59	33.47	35.86
TOTAL, CASH EXPENSES	86.88	85.69	87.91
RECEIPTS LESS CASH EXPENSES	32.08	28.76	46.04
CAPITAL REPLACEMENT	19.30	20.98	22.96
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	12.78	7.78	23.08
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ECONOMIC COSTS:			
VARIABLE EXPENSES	52.29	52.22	52.05
GENERAL FARM OVERHEAD	7.39	7.04	7.35
TAXES AND INSURANCE	7.39	7.39	8.28
CAPITAL REPLACEMENT	19.30	20.98	22.96
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.91	3.13	2.47
RETURN TO OTHER NONLAND CAPITAL	7.07	7.68	8.38
NET LAND RENT	29.44	28.65	34.00
LABOR (PAID AND UNPAID) <u>3/</u>	9.67	10.05	10.75
TOTAL, ECONOMIC COSTS	136.46	137.14	146.24
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-17.50	-22.69	-12.29
NET RETURNS TO OWNED INPUTS	32.59	26.82	43.31
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.63	3.38	3.48
YIELD (BU./PLANTED ACRE)	31.47	32.54	37.01

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 22--U.S. HARD RED WINTER WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	96.98	100.88	125.62
SECONDARY CROP	4.35	4.39	3.92
TOTAL	101.33	105.27	129.54
CASH EXPENSES:			
SEED	5.11	4.98	4.66
FERTILIZER	13.09	12.74	10.68
CHEMICALS	1.62	1.69	1.73
CUSTOM OPERATIONS	5.96	6.06	6.24
FUEL AND LUBRICATION	13.27	13.38	12.91
REPAIRS	7.55	8.34	9.28
PURCHASED IRRIGATION WATER	.37	.29	.28
MANAGEMENT FEES	.14	.12	.11
TOTAL, VARIABLE EXPENSES	47.11	47.60	45.89
GENERAL FARM OVERHEAD	6.66	6.33	6.52
TAXES AND INSURANCE	6.72	6.70	7.51
INTEREST	17.52	17.11	18.32
TOTAL, FIXED EXPENSES	30.90	30.14	32.35
TOTAL, CASH EXPENSES	78.01	77.74	78.24
RECEIPTS LESS CASH EXPENSES	23.32	27.53	51.30
CAPITAL REPLACEMENT	18.02	19.83	22.16
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	5.30	7.70	29.14
ECONOMIC COSTS:			
VARIABLE EXPENSES	47.11	47.60	45.89
GENERAL FARM OVERHEAD	6.66	6.33	6.52
TAXES AND INSURANCE	6.72	6.70	7.51
CAPITAL REPLACEMENT	18.02	19.83	22.16
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.92	3.18	2.40
RETURN TO OTHER NONLAND CAPITAL	6.45	7.14	8.01
NET LAND RENT	23.31	25.63	32.60
LABOR (PAID AND UNPAID) <u>3/</u>	9.09	9.86	10.47
TOTAL, ECONOMIC COSTS	121.28	126.27	135.56
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-19.95	-21.00	-6.02
NET RETURNS TO OWNED INPUTS	22.82	24.81	47.46
HARVEST PERIOD PRICE (DOLLARS/BU.)			
YIELD (BU./PLANTED ACRE)	3.70	3.41	3.40
	26.22	29.55	36.95

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 23--HARD RED WINTER WHEAT PRODUCTION COSTS, CENTRAL PLAINS,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	88.50	104.86	131.25
SECONDARY CROP	1.24	1.28	1.24
TOTAL	89.74	106.14	132.49
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CASH EXPENSES:			
SEED	4.28	4.38	4.09
FERTILIZER	9.38	9.73	8.43
CHEMICALS	.96	1.03	1.11
CUSTOM OPERATIONS	3.54	3.72	4.10
FUEL AND LUBRICATION	11.38	11.45	10.85
REPAIRS	7.55	8.59	9.45
TOTAL, VARIABLE EXPENSES	37.09	38.90	38.03
GENERAL FARM OVERHEAD	5.84	6.24	6.34
TAXES AND INSURANCE	8.04	8.21	8.98
INTEREST	15.86	19.04	19.73
TOTAL, FIXED EXPENSES	29.74	33.49	35.05
TOTAL, CASH EXPENSES	66.83	72.39	73.08
RECEIPTS LESS CASH EXPENSES	22.91	33.75	59.41
CAPITAL REPLACEMENT	18.81	21.30	23.24
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	4.10	12.45	36.17
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ECONOMIC COSTS:			
VARIABLE EXPENSES	37.09	38.90	38.03
GENERAL FARM OVERHEAD	5.84	6.24	6.34
TAXES AND INSURANCE	8.04	8.21	8.98
CAPITAL REPLACEMENT	18.81	21.30	23.24
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.49	2.91	2.19
RETURN TO OTHER NONLAND CAPITAL	7.07	8.07	8.78
NET LAND RENT	20.87	26.24	34.51
LABOR (PAID AND UNPAID) <u>3/</u>	8.56	9.73	10.43
TOTAL, ECONOMIC COSTS	109.77	121.60	132.50
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-20.03	-15.46	-.01
NET RETURNS TO OWNED INPUTS	19.96	31.49	55.90
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.67	3.37	3.37
YIELD (BU./PLANTED ACRE)	24.09	31.10	38.92

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 24--HARD RED WINTER WHEAT PRODUCTION COSTS, NORTHERN PLAINS,
1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	125.31	112.40	129.44
SECONDARY CROP	.18	.20	.20
TOTAL	125.49	112.60	129.64
CASH EXPENSES:			
SEED	4.79	4.50	4.57
FERTILIZER	12.54	11.61	11.27
CHEMICALS	2.42	2.65	2.79
CUSTOM OPERATIONS	3.51	3.73	4.07
FUEL AND LUBRICATION	10.73	10.02	9.34
REPAIRS	8.11	8.64	9.46
PURCHASED IRRIGATION WATER	.37	.11	.22
TOTAL, VARIABLE EXPENSES	42.47	41.26	41.72
GENERAL FARM OVERHEAD	11.81	7.47	7.88
TAXES AND INSURANCE	7.12	7.03	7.55
INTEREST	35.28	22.00	23.66
TOTAL, FIXED EXPENSES	54.21	36.50	39.09
TOTAL, CASH EXPENSES	96.68	77.76	80.81
RECEIPTS LESS CASH EXPENSES	28.81	34.84	48.83
CAPITAL REPLACEMENT	20.53	21.43	23.90
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	8.28	13.41	24.93
ECONOMIC COSTS:			
VARIABLE EXPENSES	42.47	41.26	41.72
GENERAL FARM OVERHEAD	11.81	7.47	7.88
TAXES AND INSURANCE	7.12	7.03	7.55
CAPITAL REPLACEMENT	20.53	21.43	23.90
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	4.29	3.42	2.67
RETURN TO OTHER NONLAND CAPITAL	7.67	7.99	8.83
NET LAND RENT	32.13	30.99	34.90
LABOR (PAID AND UNPAID) <u>3/</u>	7.77	7.93	9.30
TOTAL, ECONOMIC COSTS	133.79	127.52	136.75
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-8.30	-14.92	-7.11
NET RETURNS TO OWNED INPUTS	43.56	35.41	48.59
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.52	3.39	3.63
YIELD (BU./PLANTED ACRE)	35.60	33.14	35.68

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 25--HARD RED WINTER WHEAT PRODUCTION COSTS, SOUTHERN PLAINS,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	86.35	83.16	105.61
SECONDARY CROP	9.62	9.48	9.70
TOTAL	95.97	92.64	115.31
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CASH EXPENSES:			
SEED	5.54	5.28	5.03
FERTILIZER	15.58	14.84	12.34
CHEMICALS	1.74	1.85	1.94
CUSTOM OPERATIONS	7.70	7.99	8.81
FUEL AND LUBRICATION	14.60	14.73	15.50
REPAIRS	6.97	7.53	8.47
MANAGEMENT FEES	.01	.01	.01
TOTAL, VARIABLE EXPENSES	52.14	52.23	52.10
GENERAL FARM OVERHEAD	5.63	4.87	4.98
TAXES AND INSURANCE	3.97	3.98	4.24
INTEREST	13.63	11.75	12.29
TOTAL, FIXED EXPENSES	23.23	20.60	21.51
TOTAL, CASH EXPENSES	75.37	72.83	73.61
RECEIPTS LESS CASH EXPENSES	20.60	19.81	41.70
CAPITAL REPLACEMENT	15.61	16.86	19.07
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	4.99	2.95	22.63
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ECONOMIC COSTS:			
VARIABLE EXPENSES	52.14	52.23	52.10
GENERAL FARM OVERHEAD	5.63	4.87	4.98
TAXES AND INSURANCE	3.97	3.98	4.24
CAPITAL REPLACEMENT	15.61	16.86	19.07
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.92	3.14	2.40
RETURN TO OTHER NONLAND CAPITAL	5.07	5.48	6.18
NET LAND RENT	21.62	21.11	26.23
LABOR (PAID AND UNPAID) <u>3/</u>	8.92	9.39	9.85
TOTAL, ECONOMIC COSTS	116.88	117.06	125.05
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-20.91	-24.42	-9.74
NET RETURNS TO OWNED INPUTS	18.62	14.70	34.92
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.72	3.45	3.32
YIELD (BU./PLANTED ACRE)	23.18	24.14	31.83

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 26--HARD RED WINTER WHEAT PRODUCTION COSTS, SOUTHWEST,
1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	287.45	243.73	244.82
SECONDARY CROP	3.94	3.99	4.82
TOTAL	291.39	247.72	249.64
=====	=====	=====	=====
CASH EXPENSES:			
SEED	14.52	13.74	13.82
FERTILIZER	45.59	44.56	40.58
CHEMICALS	9.16	9.84	9.87
CUSTOM OPERATIONS	31.43	30.49	32.27
FUEL AND LUBRICATION	35.52	40.36	41.29
REPAIRS	13.05	14.14	15.32
PURCHASED IRRIGATION WATER	10.96	10.59	11.27
MISCELLANEOUS	.05	.07	.09
MANAGEMENT FEES	4.32	4.32	4.47
TOTAL, VARIABLE EXPENSES	164.60	168.11	168.98
GENERAL FARM OVERHEAD	18.53	25.85	26.42
TAXES AND INSURANCE	16.71	14.87	15.91
INTEREST	43.47	42.70	45.28
TOTAL, FIXED EXPENSES	78.71	83.42	87.61
TOTAL, CASH EXPENSES	243.31	251.53	256.59
RECEIPTS LESS CASH EXPENSES	48.08	-3.81	-6.95
CAPITAL REPLACEMENT	27.10	29.17	31.42
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	20.98	-32.98	-38.37
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	164.60	168.11	168.98
GENERAL FARM OVERHEAD	18.53	25.85	26.42
TAXES AND INSURANCE	16.71	14.87	15.91
CAPITAL REPLACEMENT	27.10	29.17	31.42
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	9.90	8.12	6.38
RETURN TO OTHER NONLAND CAPITAL	9.50	10.19	10.84
NET LAND RENT	60.19	63.65	63.72
LABOR (PAID AND UNPAID) <u>3/</u>	23.27	23.73	24.28
TOTAL, ECONOMIC COSTS	329.80	343.69	347.95
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-38.41	-95.97	-98.31
NET RETURNS TO OWNED INPUTS	64.45	9.72	6.91
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.97	3.67	3.87
YIELD (BU./PLANTED ACRE)	72.43	66.41	63.23

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 27--U.S. SOFT RED WINTER WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	140.79	110.07	123.64
SECONDARY CROP	12.63	11.86	14.92
TOTAL	153.42	121.93	138.56
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CASH EXPENSES:			
SEED	11.25	9.96	9.54
FERTILIZER	36.59	32.10	31.43
LIME AND GYPSUM	1.81	1.99	2.00
CHEMICALS	1.32	1.69	1.62
CUSTOM OPERATIONS	4.70	5.32	5.29
FUEL AND LUBRICATION	11.27	10.64	9.88
REPAIRS	6.55	6.79	7.44
MISCELLANEOUS	.53	.49	.50
MANAGEMENT FEES	.33	.42	.39
TOTAL, VARIABLE EXPENSES	74.35	69.40	68.09
GENERAL FARM OVERHEAD	7.26	5.16	5.40
TAXES AND INSURANCE	7.93	7.90	9.23
INTEREST	20.12	17.56	18.51
TOTAL, FIXED EXPENSES	35.31	30.62	33.14
TOTAL, CASH EXPENSES	109.66	100.02	101.23
RECEIPTS LESS CASH EXPENSES	43.76	21.91	37.33
CAPITAL REPLACEMENT	17.84	18.77	20.44
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	25.92	3.14	16.89
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ECONOMIC COSTS:			
VARIABLE EXPENSES	74.35	69.40	68.09
GENERAL FARM OVERHEAD	7.26	5.16	5.40
TAXES AND INSURANCE	7.93	7.90	9.23
CAPITAL REPLACEMENT	17.84	18.77	20.44
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.77	4.31	3.34
RETURN TO OTHER NONLAND CAPITAL	6.47	6.67	7.27
NET LAND RENT	31.54	25.36	30.83
LABOR (PAID AND UNPAID) 3/	11.74	11.44	11.90
TOTAL, ECONOMIC COSTS	162.90	149.01	156.50
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-9.48	-27.08	-17.94
NET RETURNS TO OWNED INPUTS	46.04	20.70	35.40
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.43	3.11	3.27
YIELD (BU./PLANTED ACRE)	41.04	35.34	37.79

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 28--SOFT RED WINTER WHEAT PRODUCTION COSTS, LAKE STATES AND
CORN BELT, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	145.71	114.29	141.93
SECONDARY CROP	17.58	20.26	23.69
TOTAL	163.29	134.55	165.62
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CASH EXPENSES:			
SEED	10.69	9.61	9.31
FERTILIZER	36.38	30.07	30.82
LIME AND GYPSUM	1.07	1.07	1.13
CHEMICALS	.37	.40	.41
CUSTOM OPERATIONS	3.11	3.15	3.34
FUEL AND LUBRICATION	11.30	10.88	10.40
REPAIRS	6.86	7.20	8.06
MISCELLANEOUS	.71	.77	.72
TOTAL, VARIABLE EXPENSES	70.49	63.15	64.19
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GENERAL FARM OVERHEAD	7.58	5.53	5.73
TAXES AND INSURANCE	10.97	12.61	13.77
INTEREST	20.82	17.47	18.36
TOTAL, FIXED EXPENSES	39.37	35.61	37.86
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TOTAL, CASH EXPENSES	109.86	98.76	102.05
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RECEIPTS LESS CASH EXPENSES	53.43	35.79	63.57
CAPITAL REPLACEMENT	18.53	19.53	21.69
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	34.90	16.26	41.88
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ECONOMIC COSTS:			
VARIABLE EXPENSES	70.49	63.15	64.19
GENERAL FARM OVERHEAD	7.58	5.53	5.73
TAXES AND INSURANCE	10.97	12.61	13.77
CAPITAL REPLACEMENT	18.53	19.53	21.69
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.52	4.01	3.17
RETURN TO OTHER NONLAND CAPITAL	7.05	7.43	8.19
NET LAND RENT	37.58	30.07	39.66
LABOR (PAID AND UNPAID) <u>3/</u>	12.83	12.94	13.12
TOTAL, ECONOMIC COSTS	170.55	155.27	169.52
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RESIDUAL RETURNS TO MANAGEMENT AND RISK	-7.26	-20.72	-3.90
NET RETURNS TO OWNED INPUTS	55.72	33.73	60.24
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.42	3.14	3.28
YIELD (BU./PLANTED ACRE)	42.55	36.38	43.27

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS,
PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES
OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE)
AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY
DATA.

TABLE 29--SOFT RED WINTER WHEAT PRODUCTION COSTS, NORTHEAST,
1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	122.08	116.91	130.69
SECONDARY CROP	66.56	72.04	71.10
TOTAL	188.64	188.95	201.79
CASH EXPENSES:			
SEED	13.98	11.42	10.92
FERTILIZER	41.19	35.44	32.18
LIME AND GYPSUM	3.06	3.21	3.15
CHEMICALS	.12	.13	.13
CUSTOM OPERATIONS	5.62	5.72	6.04
FUEL AND LUBRICATION	14.47	13.64	13.11
REPAIRS	8.67	9.35	10.17
MISCELLANEOUS	1.94	2.05	1.90
TOTAL, VARIABLE EXPENSES	89.05	80.96	77.60
GENERAL FARM OVERHEAD	10.59	6.78	6.93
TAXES AND INSURANCE	15.31	16.21	17.86
INTEREST	16.44	19.63	20.46
TOTAL, FIXED EXPENSES	42.34	42.62	45.25
TOTAL, CASH EXPENSES	131.39	123.58	122.85
RECEIPTS LESS CASH EXPENSES	57.25	65.37	78.94
CAPITAL REPLACEMENT	20.71	22.36	24.24
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	36.54	43.01	54.70
ECONOMIC COSTS:			
VARIABLE EXPENSES	89.05	80.96	77.60
GENERAL FARM OVERHEAD	10.59	6.78	6.93
TAXES AND INSURANCE	15.31	16.21	17.86
CAPITAL REPLACEMENT	20.71	22.36	24.24
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	8.12	5.97	4.45
RETURN TO OTHER NONLAND CAPITAL	8.14	8.79	9.44
NET LAND RENT	17.25	28.51	27.25
LABOR (PAID AND UNPAID) <u>3/</u>	17.10	18.83	19.13
TOTAL, ECONOMIC COSTS	186.27	188.41	186.90
RESIDUAL RETURNS TO MANAGEMENT AND RISK	2.37	.54	14.89
NET RETURNS TO OWNED INPUTS	52.98	62.64	75.16
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.28	3.26	3.28
YIELD (BU./PLANTED ACRE)	37.24	35.91	39.85

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 30--SOFT RED WINTER WHEAT PRODUCTION COSTS, SOUTHEAST,
1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	135.87	106.40	105.41
SECONDARY CROP	3.18	2.64	3.00
TOTAL	139.05	109.04	108.41
CASH EXPENSES:			
SEED	11.78	10.18	9.69
FERTILIZER	36.58	33.59	31.98
LIME AND GYPSUM	2.65	2.69	2.77
CHEMICALS	2.57	2.78	2.91
CUSTOM OPERATIONS	6.58	7.04	7.14
FUEL AND LUBRICATION	11.04	10.33	9.19
REPAIRS	6.02	6.37	6.67
MISCELLANEOUS	.21	.20	.21
MANAGEMENT FEES	.76	.77	.79
TOTAL, VARIABLE EXPENSES	78.19	73.95	71.35
GENERAL FARM OVERHEAD	6.66	4.79	4.98
TAXES AND INSURANCE	3.71	3.78	4.30
INTEREST	19.46	17.54	18.54
TOTAL, FIXED EXPENSES	29.83	26.11	27.82
TOTAL, CASH EXPENSES	108.02	100.06	99.17
RECEIPTS LESS CASH EXPENSES	31.03	8.98	9.24
CAPITAL REPLACEMENT	16.81	18.01	19.00
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	14.22	-9.03	-9.76
ECONOMIC COSTS:			
VARIABLE EXPENSES	78.19	73.95	71.35
GENERAL FARM OVERHEAD	6.66	4.79	4.98
TAXES AND INSURANCE	3.71	3.78	4.30
CAPITAL REPLACEMENT	16.81	18.01	19.00
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.93	4.49	3.44
RETURN TO OTHER NONLAND CAPITAL	5.63	5.97	6.24
NET LAND RENT	24.94	21.46	22.45
LABOR (PAID AND UNPAID) <u>3/</u>	10.06	9.94	10.28
TOTAL, ECONOMIC COSTS	151.93	142.39	142.04
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-12.88	-33.35	-33.63
NET RETURNS TO OWNED INPUTS	33.68	8.51	8.78
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.45	3.09	3.26
YIELD (BU./PLANTED ACRE)	39.40	34.49	32.33

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 31--U.S. HARD RED SPRING WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	105.23	109.63	104.31
TOTAL	105.23	109.63	104.31
=====	=====	=====	=====
CASH EXPENSES:			
SEED	7.86	7.17	6.89
FERTILIZER	9.70	10.44	11.99
CHEMICALS	3.65	3.91	4.06
CUSTOM OPERATIONS	1.50	1.62	1.57
FUEL AND LUBRICATION	10.76	10.55	9.49
REPAIRS	8.49	9.33	9.85
PURCHASED IRRIGATION WATER	.01	.02	.01
TOTAL, VARIABLE EXPENSES	41.97	43.04	43.86
GENERAL FARM OVERHEAD	7.39	6.99	7.14
TAXES AND INSURANCE	6.95	7.45	7.78
INTEREST	21.08	20.44	21.28
TOTAL, FIXED EXPENSES	35.42	34.88	36.20
TOTAL, CASH EXPENSES	77.39	77.92	80.06
RECEIPTS LESS CASH EXPENSES	27.84	31.71	24.25
CAPITAL REPLACEMENT	20.95	23.01	24.34
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	6.89	8.70	-.09
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	41.97	43.04	43.86
GENERAL FARM OVERHEAD	7.39	6.99	7.14
TAXES AND INSURANCE	6.95	7.45	7.78
CAPITAL REPLACEMENT	20.95	23.01	24.34
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.03	1.65	1.35
RETURN TO OTHER NONLAND CAPITAL	7.99	8.80	9.19
NET LAND RENT	34.61	35.20	34.22
LABOR (PAID AND UNPAID) <u>3/</u>	8.51	8.79	9.14
TOTAL, ECONOMIC COSTS	130.40	134.93	137.02
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-25.17	-25.30	-32.71
NET RETURNS TO OWNED INPUTS	27.97	29.14	21.19
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.69	3.46	3.78
YIELD (BU./PLANTED ACRE)	28.51	31.66	27.56

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 32--U.S. DURUM WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	97.59	96.13	104.60
TOTAL	97.59	96.13	104.60
<hr/>			
CASH EXPENSES:			
SEED	9.37	7.16	6.95
FERTILIZER	6.40	7.26	7.82
CHEMICALS	3.34	3.71	3.93
CUSTOM OPERATIONS	.93	.93	1.06
FUEL AND LUBRICATION	11.60	11.29	9.94
REPAIRS	9.35	10.31	10.73
TOTAL, VARIABLE EXPENSES	40.99	40.66	40.43
GENERAL FARM OVERHEAD	6.27	6.20	6.33
TAXES AND INSURANCE	7.17	7.51	7.65
INTEREST	16.91	18.89	19.67
TOTAL, FIXED EXPENSES	30.35	32.60	33.65
TOTAL, CASH EXPENSES	71.34	73.26	74.08
RECEIPTS LESS CASH EXPENSES	26.25	22.87	30.52
CAPITAL REPLACEMENT	22.44	24.48	25.77
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.81	-1.61	4.75
<hr/>			
ECONOMIC COSTS:			
VARIABLE EXPENSES	40.99	40.66	40.43
GENERAL FARM OVERHEAD	6.27	6.20	6.33
TAXES AND INSURANCE	7.17	7.51	7.65
CAPITAL REPLACEMENT	22.44	24.48	25.77
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.21	1.69	1.34
RETURN TO OTHER NONLAND CAPITAL	8.62	9.45	9.78
NET LAND RENT	37.25	35.45	37.11
LABOR (PAID AND UNPAID) <u>3/</u>	10.12	9.47	9.77
TOTAL, ECONOMIC COSTS	135.07	134.91	138.18
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-37.48	-38.78	-33.58
NET RETURNS TO OWNED INPUTS	20.72	17.28	24.42
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HARVEST PERIOD PRICE (DOLLARS/BU.)	3.51	3.09	4.10
YIELD (BU./PLANTED ACRE)	27.83	31.09	25.51

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 33--U.S. WHITE WHEAT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	212.09	187.28	228.15
TOTAL	212.09	187.28	228.15
=====	=====	=====	=====
CASH EXPENSES:			
SEED	6.72	6.46	6.55
FERTILIZER	23.24	24.19	25.25
CHEMICALS	7.20	7.58	7.94
CUSTOM OPERATIONS	3.21	3.14	3.21
FUEL AND LUBRICATION	13.53	13.70	14.21
REPAIRS	10.05	10.94	12.02
PURCHASED IRRIGATION WATER	1.82	2.24	2.11
TOTAL, VARIABLE EXPENSES	65.77	68.25	71.29
GENERAL FARM OVERHEAD	14.59	18.76	18.94
TAXES AND INSURANCE	12.50	10.74	12.04
INTEREST	35.95	34.28	35.11
TOTAL, FIXED EXPENSES	63.04	63.78	66.09
TOTAL, CASH EXPENSES	128.81	132.03	137.38
RECEIPTS LESS CASH EXPENSES	83.28	55.25	90.77
CAPITAL REPLACEMENT	25.73	28.14	30.45
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	57.55	27.11	60.32
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	65.77	68.25	71.29
GENERAL FARM OVERHEAD	14.59	18.76	18.94
TAXES AND INSURANCE	12.50	10.74	12.04
CAPITAL REPLACEMENT	25.73	28.14	30.45
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.38	4.40	3.63
RETURN TO OTHER NONLAND CAPITAL	9.57	10.43	11.27
NET LAND RENT	47.79	38.24	49.59
LABOR (PAID AND UNPAID) 3/	10.76	11.13	13.33
TOTAL, ECONOMIC COSTS	192.09	190.09	210.54
RESIDUAL RETURNS TO MANAGEMENT AND RISK	20.00	-2.81	17.61
NET RETURNS TO OWNED INPUTS	93.50	61.39	95.43
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/BU.)	3.84	3.75	3.72
YIELD (BU./PLANTED ACRE)	55.22	49.96	61.26

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 34--U.S. RICE PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	487.67	356.65	400.19
TOTAL	487.67	356.65	400.19
CASH EXPENSES:			
SEED	29.95	26.10	25.89
FERTILIZER	38.85	37.78	35.47
CHEMICALS	25.08	26.63	28.13
CUSTOM OPERATIONS	30.64	31.88	32.69
FUEL AND LUBRICATION	49.83	50.48	47.56
REPAIRS	19.59	21.34	22.66
PURCHASED IRRIGATION WATER	7.66	8.13	8.14
DRYING	35.78	36.30	35.27
MISCELLANEOUS	1.51	1.48	1.48
TOTAL, VARIABLE EXPENSES	238.89	240.12	237.29
GENERAL FARM OVERHEAD	25.99	23.20	23.14
TAXES AND INSURANCE	9.55	10.11	10.83
INTEREST	61.57	58.58	60.43
TOTAL, FIXED EXPENSES	97.11	91.89	94.39
TOTAL, CASH EXPENSES	336.00	332.01	331.68
RECEIPTS LESS CASH EXPENSES	151.67	24.64	68.51
CAPITAL REPLACEMENT	42.94	46.83	49.73
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	108.73	-22.19	18.78
ECONOMIC COSTS:			
VARIABLE EXPENSES	238.89	240.12	237.29
GENERAL FARM OVERHEAD	25.99	23.20	23.14
TAXES AND INSURANCE	9.55	10.11	10.83
CAPITAL REPLACEMENT	42.94	46.83	49.73
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	11.00	8.90	6.97
RETURN TO OTHER NONLAND CAPITAL	15.37	16.76	17.65
NET LAND RENT	92.13	53.25	63.72
LABOR (PAID AND UNPAID) 3/	32.85	35.36	35.19
TOTAL, ECONOMIC COSTS	468.72	434.53	444.52
RESIDUAL RETURNS TO MANAGEMENT AND RISK	18.95	-77.88	-44.33
NET RETURNS TO OWNED INPUTS	170.30	36.39	79.20
HARVEST PERIOD PRICE (DOLLARS/CWT.)	10.21	7.61	8.79
YIELD (CWT./PLANTED ACRE)	47.75	46.86	45.53

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 35--RICE PRODUCTION COSTS, ARKANSAS (NON-DELTA), 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	450.74	333.63	385.78
TOTAL	450.74	333.63	385.78
CASH EXPENSES:			
SEED	31.82	24.95	27.41
FERTILIZER	36.74	36.00	32.11
CHEMICALS	23.59	25.40	26.66
CUSTOM OPERATIONS	22.93	23.79	24.64
FUEL AND LUBRICATION	54.48	52.82	48.69
REPAIRS	18.63	20.21	21.58
PURCHASED IRRIGATION WATER	1.07	1.03	1.07
DRYING	35.89	34.12	34.20
MISCELLANEOUS	1.61	1.61	1.61
TOTAL, VARIABLE EXPENSES	226.76	219.93	217.97
GENERAL FARM OVERHEAD	24.04	17.12	17.45
TAXES AND INSURANCE	8.02	8.49	9.14
INTEREST	57.29	56.08	58.31
TOTAL, FIXED EXPENSES	89.35	81.69	84.90
TOTAL, CASH EXPENSES	316.11	301.62	302.87
RECEIPTS LESS CASH EXPENSES	134.63	32.01	82.91
CAPITAL REPLACEMENT	40.16	43.61	46.57
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	94.47	-11.60	36.34
ECONOMIC COSTS:			
VARIABLE EXPENSES	226.76	219.93	217.97
GENERAL FARM OVERHEAD	24.04	17.12	17.45
TAXES AND INSURANCE	8.02	8.49	9.14
CAPITAL REPLACEMENT	40.16	43.61	46.57
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	10.16	8.06	6.30
RETURN TO OTHER NONLAND CAPITAL	14.81	16.08	17.01
NET LAND RENT	90.61	53.23	67.77
LABOR (PAID AND UNPAID) <u>3/</u>	33.03	37.61	35.99
TOTAL, ECONOMIC COSTS	447.59	404.13	418.20
RESIDUAL RETURNS TO MANAGEMENT AND RISK	3.15	-70.50	-32.42
NET RETURNS TO OWNED INPUTS	151.76	44.48	94.65
HARVEST PERIOD PRICE (DOLLARS/CWT.)	9.95	7.74	8.93
YIELD (CWT./PLANTED ACRE)	45.30	43.10	43.20

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 36--RICE PRODUCTION COSTS, CALIFORNIA, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	671.87	489.34	582.15
TOTAL	671.87	489.34	582.15
CASH EXPENSES:			
SEED	30.68	31.33	24.15
FERTILIZER	43.66	45.35	43.52
CHEMICALS	22.41	24.03	25.24
CUSTOM OPERATIONS	52.90	55.08	57.75
FUEL AND LUBRICATION	29.88	30.54	28.50
REPAIRS	22.00	23.99	25.55
PURCHASED IRRIGATION WATER	19.81	21.25	21.84
DRYING	45.43	49.72	51.26
MISCELLANEOUS	1.42	1.42	1.42
TOTAL, VARIABLE EXPENSES	268.19	282.71	279.23
GENERAL FARM OVERHEAD	38.03	53.37	54.39
TAXES AND INSURANCE	18.96	17.88	19.87
INTEREST	87.87	85.19	88.55
TOTAL, FIXED EXPENSES	144.86	156.44	162.81
TOTAL, CASH EXPENSES	413.05	439.15	442.04
RECEIPTS LESS CASH EXPENSES	258.82	50.19	140.11
CAPITAL REPLACEMENT	43.49	47.42	50.51
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	215.33	2.77	89.60
ECONOMIC COSTS:			
VARIABLE EXPENSES	268.19	282.71	279.23
GENERAL FARM OVERHEAD	38.03	53.37	54.39
TAXES AND INSURANCE	18.96	17.88	19.87
CAPITAL REPLACEMENT	43.49	47.42	50.51
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	11.23	9.45	7.22
RETURN TO OTHER NONLAND CAPITAL	15.03	16.39	17.30
NET LAND RENT	150.95	100.14	124.06
LABOR (PAID AND UNPAID) <u>3/</u>	31.35	33.13	32.89
TOTAL, ECONOMIC COSTS	577.23	560.49	585.47
RESIDUAL RETURNS TO MANAGEMENT AND RISK	94.64	-71.15	-3.32
NET RETURNS TO OWNED INPUTS	303.20	87.96	178.15
HARVEST PERIOD PRICE (DOLLARS/CWT.)	9.85	7.21	8.32
YIELD (CWT./PLANTED ACRE)	68.21	67.87	69.97

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 37--RICE PRODUCTION COSTS, DELTA, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	441.71	307.97	345.98
TOTAL	441.71	307.97	345.98
=====	=====	=====	=====
CASH EXPENSES:			
SEED	30.58	23.91	26.27
FERTILIZER	30.75	28.57	29.87
CHEMICALS	29.44	31.55	33.14
CUSTOM OPERATIONS	28.34	29.46	30.44
FUEL AND LUBRICATION	52.07	52.77	47.16
REPAIRS	16.29	17.77	18.92
DRYING	32.08	30.38	29.59
MISCELLANEOUS	1.44	1.44	1.44
TOTAL, VARIABLE EXPENSES	220.99	215.85	216.83
GENERAL FARM OVERHEAD	22.23	15.76	16.06
TAXES AND INSURANCE	6.88	7.85	8.17
INTEREST	52.97	51.63	53.65
TOTAL, FIXED EXPENSES	82.08	75.24	77.88
TOTAL, CASH EXPENSES	303.07	291.09	294.71
RECEIPTS LESS CASH EXPENSES	138.64	16.88	51.27
CAPITAL REPLACEMENT	37.45	40.84	43.49
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	101.19	-23.96	7.78
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	220.99	215.85	216.83
GENERAL FARM OVERHEAD	22.23	15.76	16.06
TAXES AND INSURANCE	6.88	7.85	8.17
CAPITAL REPLACEMENT	37.45	40.84	43.49
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	9.91	7.76	6.26
RETURN TO OTHER NONLAND CAPITAL	13.77	15.01	15.84
NET LAND RENT	77.69	38.83	46.79
LABOR (PAID AND UNPAID) <u>3/</u>	28.90	28.67	30.16
TOTAL, ECONOMIC COSTS	417.82	370.57	383.60
RESIDUAL RETURNS TO MANAGEMENT AND RISK	23.89	-62.60	-37.62
NET RETURNS TO OWNED INPUTS	154.16	27.67	61.43
=====	=====	=====	=====
HARVEST PERIOD PRICE (DOLLARS/CWT.)	10.43	7.68	8.86
YIELD (CWT./PLANTED ACRE)	42.35	40.10	39.05

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 38--RICE PRODUCTION COSTS, GULF COAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	466.07	345.07	365.92
TOTAL	466.07	345.07	365.92
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CASH EXPENSES:			
SEED	27.01	26.11	24.79
FERTILIZER	45.27	42.61	39.62
CHEMICALS	24.49	25.57	27.16
CUSTOM OPERATIONS	28.84	29.47	30.45
FUEL, AND LUBRICATION	53.75	57.31	56.58
REPAIRS	22.05	23.85	25.43
PURCHASED IRRIGATION WATER	14.56	14.70	15.60
DRYING	33.54	35.73	32.78
MISCELLANEOUS	1.50	1.42	1.38
TOTAL, VARIABLE EXPENSES	251.01	256.77	253.79
GENERAL FARM OVERHEAD	24.70	18.65	19.04
TAXES AND INSURANCE	8.34	9.25	10.20
INTEREST	59.13	51.81	53.70
TOTAL, FIXED EXPENSES	92.17	79.71	82.94
TOTAL, CASH EXPENSES	343.18	336.48	336.73
RECEIPTS LESS CASH EXPENSES	122.89	8.59	29.19
CAPITAL REPLACEMENT	50.21	54.58	57.98
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	72.68	-45.99	-28.79
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ECONOMIC COSTS:			
VARIABLE EXPENSES	251.01	256.77	253.79
GENERAL FARM OVERHEAD	24.70	18.65	19.04
TAXES AND INSURANCE	8.34	9.25	10.20
CAPITAL REPLACEMENT	50.21	54.58	57.98
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	12.68	10.38	8.18
RETURN TO OTHER NONLAND CAPITAL	17.49	19.03	20.03
NET LAND RENT	74.02	38.36	41.60
LABOR (PAID AND UNPAID) <u>3/</u>	36.77	39.40	39.63
TOTAL, ECONOMIC COSTS	475.22	446.42	450.45
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-9.15	-101.35	-84.53
NET RETURNS TO OWNED INPUTS	131.81	5.82	24.91
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HARVEST PERIOD PRICE (DOLLARS/CWT.)	10.64	7.77	8.99
YIELD (CWT./PLANTED ACRE)	43.82	44.40	40.72

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 39--U.S. SOYBEAN PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	179.48	161.65	200.48
TOTAL	179.48	161.65	200.48
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CASH EXPENSES:			
SEED	10.70	8.17	7.65
FERTILIZER	8.47	8.28	6.71
LIME AND GYPSUM	1.31	1.39	1.36
CHEMICALS	14.86	15.88	16.47
CUSTOM OPERATIONS	3.48	3.62	3.68
FUEL AND LUBRICATION	12.93	12.62	10.97
REPAIRS	7.51	8.26	8.57
MISCELLANEOUS	.09	.09	.08
MANAGEMENT FEES	.18	.18	.17
TOTAL, VARIABLE EXPENSES	59.53	58.49	55.66
GENERAL FARM OVERHEAD	9.56	8.70	8.98
TAXES AND INSURANCE	10.45	11.10	12.19
INTEREST	26.41	28.24	29.61
TOTAL, FIXED EXPENSES	46.42	48.04	50.78
TOTAL, CASH EXPENSES	105.95	106.53	106.44
RECEIPTS LESS CASH EXPENSES	73.53	55.12	94.04
CAPITAL REPLACEMENT	20.59	22.44	23.68
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	52.94	32.68	70.36
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ECONOMIC COSTS:			
VARIABLE EXPENSES	59.53	58.49	55.66
GENERAL FARM OVERHEAD	9.56	8.70	8.98
TAXES AND INSURANCE	10.45	11.10	12.19
CAPITAL REPLACEMENT	20.59	22.44	23.68
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.87	3.08	2.34
RETURN TO OTHER NONLAND CAPITAL	7.58	8.28	8.64
NET LAND RENT	56.86	51.43	64.06
LABOR (PAID AND UNPAID) 3/	14.23	14.66	14.62
TOTAL, ECONOMIC COSTS	182.67	178.18	190.17
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-3.19	-16.53	10.31
NET RETURNS TO OWNED INPUTS	79.35	60.92	99.97
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HARVEST PERIOD PRICE (DOLLARS/BU.)	6.05	5.13	7.96
YIELD (BU./PLANTED ACRE)	29.68	31.52	25.19

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 40--SOYBEAN PRODUCTION COSTS, DELTA, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	129.83	132.54	155.69
TOTAL	129.83	132.54	155.69
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CASH EXPENSES:			
SEED	12.94	8.07	7.64
FERTILIZER	9.33	9.32	4.92
LIME AND GYPSUM	.37	.40	.42
CHEMICALS	18.57	19.69	20.73
CUSTOM OPERATIONS	4.69	4.79	5.01
FUEL AND LUBRICATION	13.51	12.85	11.02
REPAIRS	6.35	6.97	7.37
MISCELLANEOUS	.43	.43	.44
MANAGEMENT FEES	.86	.86	.86
TOTAL, VARIABLE EXPENSES	67.05	63.38	58.41
GENERAL FARM OVERHEAD	7.60	6.83	6.97
TAXES AND INSURANCE	4.34	3.15	4.83
INTEREST	18.12	22.38	23.27
TOTAL, FIXED EXPENSES	30.06	32.36	35.07
TOTAL, CASH EXPENSES	97.11	95.74	93.48
RECEIPTS LESS CASH EXPENSES	32.72	36.80	62.21
CAPITAL REPLACEMENT	20.13	21.91	23.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	12.59	14.89	38.92
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ECONOMIC COSTS:			
VARIABLE EXPENSES	67.05	63.38	58.41
GENERAL FARM OVERHEAD	7.60	6.83	6.97
TAXES AND INSURANCE	4.34	3.15	4.83
CAPITAL REPLACEMENT	20.13	21.91	23.29
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	4.38	3.42	2.49
RETURN TO OTHER NONLAND CAPITAL	6.57	7.18	7.53
NET LAND RENT	29.76	23.44	32.41
LABOR (PAID AND UNPAID) <u>3/</u>	11.00	12.14	12.14
TOTAL, ECONOMIC COSTS	150.83	141.45	148.07
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-21.00	-8.91	7.62
NET RETURNS TO OWNED INPUTS	30.71	37.27	62.19
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HARVEST PERIOD PRICE (DOLLARS/BU.)	6.23	5.43	7.86
YIELD (BU./PLANTED ACRE)	20.84	24.40	19.82

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 41--SOYBEAN PRODUCTION COSTS, LAKE STATES AND CORN BELT,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	207.79	181.32	235.10
TOTAL	207.79	181.32	235.10
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CASH EXPENSES:			
SEED	10.26	8.50	7.87
FERTILIZER	6.06	5.36	4.98
LIME AND GYPSUM	.91	.91	.93
CHEMICALS	13.30	14.27	14.98
CUSTOM OPERATIONS	2.65	2.76	2.86
FUEL AND LUBRICATION	12.56	12.44	10.85
REPAIRS	8.05	8.84	9.14
TOTAL, VARIABLE EXPENSES	53.79	53.08	51.61
GENERAL FARM OVERHEAD	11.00	10.13	10.34
TAXES AND INSURANCE	14.21	15.63	16.37
INTEREST	30.40	31.54	32.83
TOTAL, FIXED EXPENSES	55.61	57.30	59.54
TOTAL, CASH EXPENSES	109.40	110.38	111.15
RECEIPTS LESS CASH EXPENSES	98.39	70.94	123.95
CAPITAL REPLACEMENT	21.74	23.76	24.96
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	76.65	47.18	98.99
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ECONOMIC COSTS:			
VARIABLE EXPENSES	53.79	53.08	51.61
GENERAL FARM OVERHEAD	11.00	10.13	10.34
TAXES AND INSURANCE	14.21	15.63	16.37
CAPITAL REPLACEMENT	21.74	23.76	24.96
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	3.48	2.77	2.15
RETURN TO OTHER NONLAND CAPITAL	8.35	9.14	9.49
NET LAND RENT	75.50	69.02	85.75
LABOR (PAID AND UNPAID) <u>3/</u>	15.62	15.87	15.55
TOTAL, ECONOMIC COSTS	203.69	199.40	216.22
RESIDUAL RETURNS TO MANAGEMENT AND RISK	4.10	-18.08	18.88
NET RETURNS TO OWNED INPUTS	107.05	78.72	131.82
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HARVEST PERIOD PRICE (DOLLARS/BU.)	6.04	5.05	8.01
YIELD (BU./PLANTED ACRE)	34.43	35.89	29.37

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 42--SOYBEAN PRODUCTION COSTS, NORTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	186.94	148.18	183.06
TOTAL	186.94	148.18	183.06
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CASH EXPENSES:			
SEED	9.34	7.66	7.01
FERTILIZER	1.90	2.18	2.13
LIME AND GYPSUM	.64	.98	.94
CHEMICALS	7.15	7.73	7.97
CUSTOM OPERATIONS	1.66	1.81	1.75
FUEL AND LUBRICATION	13.68	13.24	11.46
REPAIRS	7.60	8.23	8.37
TOTAL, VARIABLE EXPENSES	41.97	41.83	39.63
GENERAL FARM OVERHEAD	11.66	9.29	9.45
TAXES AND INSURANCE	10.88	10.58	11.76
INTEREST	30.79	28.50	29.56
TOTAL, FIXED EXPENSES	53.33	48.37	50.77
TOTAL, CASH EXPENSES	95.30	90.20	90.40
RECEIPTS LESS CASH EXPENSES	91.64	57.98	92.66
CAPITAL REPLACEMENT	19.40	21.04	21.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	72.24	36.94	70.84
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ECONOMIC COSTS:			
VARIABLE EXPENSES	41.97	41.83	39.63
GENERAL FARM OVERHEAD	11.66	9.29	9.45
TAXES AND INSURANCE	10.88	10.58	11.76
CAPITAL REPLACEMENT	19.40	21.04	21.82
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.59	2.13	1.64
RETURN TO OTHER NONLAND CAPITAL	7.64	8.26	8.41
NET LAND RENT	46.53	41.25	51.23
LABOR (PAID AND UNPAID) 3/	15.01	16.16	16.08
TOTAL, ECONOMIC COSTS	155.68	150.54	160.02
RESIDUAL RETURNS TO MANAGEMENT AND RISK	31.26	-2.36	23.04
NET RETURNS TO OWNED INPUTS	103.03	65.44	100.40
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HARVEST PERIOD PRICE (DOLLARS/BU.)	5.72	4.85	7.98
YIELD (BU./PLANTED ACRE)	32.70	30.55	22.93

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 43--SOYBEAN PRODUCTION COSTS, SOUTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	139.61	135.06	135.73
TOTAL	139.61	135.06	135.73
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CASH EXPENSES:			
SEED	10.43	7.51	7.20
FERTILIZER	17.03	17.99	15.94
LIME AND GYPSUM	3.56	3.76	3.76
CHEMICALS	18.75	20.27	21.19
CUSTOM OPERATIONS	5.46	5.77	5.96
FUEL AND LUBRICATION	13.23	12.71	11.09
REPAIRS	6.97	7.70	7.85
MISCELLANEOUS	.07	.07	.07
MANAGEMENT FEES	.17	.17	.17
TOTAL, VARIABLE EXPENSES	75.67	75.95	73.23
GENERAL FARM OVERHEAD	6.41	5.98	6.16
TAXES AND INSURANCE	4.91	5.06	5.42
INTEREST	20.81	23.67	24.85
TOTAL, FIXED EXPENSES	32.13	34.71	36.43
TOTAL, CASH EXPENSES	107.80	110.66	109.66
RECEIPTS LESS CASH EXPENSES	31.81	24.40	26.07
CAPITAL REPLACEMENT	18.08	19.66	20.69
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	13.73	4.74	5.38
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ECONOMIC COSTS:			
VARIABLE EXPENSES	75.67	75.95	73.23
GENERAL FARM OVERHEAD	6.41	5.98	6.16
TAXES AND INSURANCE	4.91	5.06	5.42
CAPITAL REPLACEMENT	18.08	19.66	20.69
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	4.99	4.03	3.11
RETURN TO OTHER NONLAND CAPITAL	6.21	6.78	6.99
NET LAND RENT	30.91	28.56	27.51
LABOR (PAID AND UNPAID) <u>3/</u>	12.82	12.76	13.18
TOTAL, ECONOMIC COSTS	160.00	158.78	156.29
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-20.39	-23.72	-20.56
NET RETURNS TO OWNED INPUTS	34.54	28.41	30.23
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HARVEST PERIOD PRICE (DOLLARS/BU.)	6.11	5.32	7.79
YIELD (BU./PLANTED ACRE)	22.84	25.41	17.42

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 44--U.S. SUNFLOWER PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	119.46	96.67	124.26
TOTAL	119.46	96.67	124.26
CASH EXPENSES:			
SEED	6.38	6.38	6.39
FERTILIZER	11.02	10.35	9.37
CHEMICALS	7.31	7.62	7.87
CUSTOM OPERATIONS	2.50	2.78	2.98
FUEL AND LUBRICATION	10.90	10.43	9.11
REPAIRS	7.91	8.51	8.95
DRYING	2.07	1.92	1.85
TOTAL, VARIABLE EXPENSES	48.09	47.99	46.52
GENERAL FARM OVERHEAD	7.43	5.47	5.49
TAXES AND INSURANCE	6.43	6.63	6.71
INTEREST	20.12	16.42	16.90
TOTAL, FIXED EXPENSES	33.98	28.52	29.10
TOTAL, CASH EXPENSES	82.07	76.51	75.62
RECEIPTS LESS CASH EXPENSES	37.39	20.16	48.64
CAPITAL REPLACEMENT	20.98	22.44	23.63
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	16.41	-2.28	25.01
ECONOMIC COSTS:			
VARIABLE EXPENSES	48.09	47.99	46.52
GENERAL FARM OVERHEAD	7.43	5.47	5.49
TAXES AND INSURANCE	6.43	6.63	6.71
CAPITAL REPLACEMENT	20.98	22.44	23.63
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	2.61	2.10	1.61
RETURN TO OTHER NONLAND CAPITAL	8.12	8.67	9.04
NET LAND RENT	31.85	27.41	31.84
LABOR (PAID AND UNPAID) <u>3/</u>	8.15	7.75	7.97
TOTAL, ECONOMIC COSTS	133.66	128.46	132.81
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-14.20	-31.79	-8.55
NET RETURNS TO OWNED INPUTS	36.53	14.14	41.91
HARVEST PERIOD PRICE (DOLLARS/CWT.)	10.28	8.76	12.10
YIELD (CWT./PLANTED ACRE)	11.62	11.04	10.27

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 45--U.S. PEANUT PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	710.18	657.05	559.58
SECONDARY CROP	11.01	11.00	12.98
TOTAL	721.19	668.05	572.56
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CASH EXPENSES:			
SEED	71.80	63.41	66.43
FERTILIZER	21.77	20.54	19.09
LIME AND GYPSUM	15.48	14.05	14.34
CHEMICALS	78.75	82.82	89.05
CUSTOM OPERATIONS	6.90	7.13	7.20
FUEL AND LUBRICATION	35.40	33.97	30.93
REPAIRS	17.48	19.22	20.37
DRYING	43.76	39.78	32.91
MISCELLANEOUS	.09	.09	.09
MANAGEMENT FEES	.19	.19	.20
TOTAL, VARIABLE EXPENSES	291.62	281.20	280.61
GENERAL FARM OVERHEAD	30.80	27.18	27.84
TAXES AND INSURANCE	9.39	9.84	10.73
INTEREST	107.42	101.60	107.06
TOTAL, FIXED EXPENSES	147.61	138.62	145.63
TOTAL, CASH EXPENSES	439.23	419.82	426.24
RECEIPTS LESS CASH EXPENSES	281.96	248.23	146.32
CAPITAL REPLACEMENT	43.63	47.64	50.73
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	238.33	200.59	95.59
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ECONOMIC COSTS:			
VARIABLE EXPENSES	291.62	281.20	280.61
GENERAL FARM OVERHEAD	30.80	27.18	27.84
TAXES AND INSURANCE	9.39	9.84	10.73
CAPITAL REPLACEMENT	43.63	47.64	50.73
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	14.81	11.67	9.49
RETURN TO OTHER NONLAND CAPITAL	16.69	18.21	19.17
NET LAND RENT	105.26	92.62	83.86
LABOR (PAID AND UNPAID) <u>3/</u>	30.36	30.78	30.89
TOTAL, ECONOMIC COSTS	542.56	519.14	513.32
RESIDUAL RETURNS TO MANAGEMENT AND RISK	178.63	148.91	59.24
NET RETURNS TO OWNED INPUTS	345.75	302.19	202.65
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.27	.25	.24
YIELD (LBS./PLANTED ACRE)	2,647.61	2,645.19	2,336.48

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 46--PEANUT PRODUCTION COSTS, SOUTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	757.29	755.91	627.22
SECONDARY CROP	10.87	11.41	13.07
TOTAL	768.16	767.32	640.29
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CASH EXPENSES:			
SEED	78.97	67.19	70.02
FERTILIZER	25.55	24.39	22.04
LIME AND GYPSUM	17.93	16.91	17.00
CHEMICALS	94.39	101.26	106.64
CUSTOM OPERATIONS	5.97	6.19	6.33
FUEL AND LUBRICATION	34.44	31.40	27.63
REPAIRS	16.41	17.98	18.98
DRYING	44.81	42.51	35.05
MISCELLANEOUS	.11	.11	.10
MANAGEMENT FEES	.25	.26	.26
TOTAL, VARIABLE EXPENSES	318.83	308.20	304.05
GENERAL FARM OVERHEAD	26.50	27.06	27.62
TAXES AND INSURANCE	9.00	9.42	10.38
INTEREST	116.08	113.00	117.66
TOTAL, FIXED EXPENSES	151.58	149.48	155.66
TOTAL, CASH EXPENSES	470.41	457.68	459.71
RECEIPTS LESS CASH EXPENSES	297.75	309.64	180.58
CAPITAL REPLACEMENT	42.05	46.04	48.78
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	255.70	263.60	131.80
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ECONOMIC COSTS:			
VARIABLE EXPENSES	318.83	308.20	304.05
GENERAL FARM OVERHEAD	26.50	27.06	27.62
TAXES AND INSURANCE	9.00	9.42	10.38
CAPITAL REPLACEMENT	42.05	46.04	48.78
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	17.12	13.39	10.72
RETURN TO OTHER NONLAND CAPITAL	15.77	17.27	18.10
NET LAND RENT	99.00	92.22	89.37
LABOR (PAID AND UNPAID) <u>3/</u>	29.24	28.32	28.38
TOTAL, ECONOMIC COSTS	557.51	541.92	537.40
RESIDUAL RETURNS TO MANAGEMENT AND RISK	210.65	225.40	102.89
NET RETURNS TO OWNED INPUTS	371.78	376.60	249.46
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.27	.24	.23
YIELD (LBS./PLANTED ACRE)	2,846.25	3,110.11	2,682.19

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 47--PEANUT PRODUCTION COSTS, SOUTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	444.76	378.30	419.11
SECONDARY CROP	13.88	11.99	15.18
TOTAL	458.64	390.29	434.29
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CASH EXPENSES:			
SEED	61.46	46.16	48.18
FERTILIZER	21.56	20.30	19.15
LIME AND GYPSUM	.55	.62	.62
CHEMICALS	31.43	33.92	36.59
CUSTOM OPERATIONS	6.96	7.03	7.36
FUEL AND LUBRICATION	41.34	42.55	42.67
REPAIRS	22.19	24.01	26.22
DRYING	18.39	16.87	18.75
MISCELLANEOUS	.03	.02	.02
MANAGEMENT FEES	.01	.01	.01
TOTAL, VARIABLE EXPENSES	203.92	191.49	199.57
GENERAL FARM OVERHEAD	28.55	20.70	21.51
TAXES AND INSURANCE	8.53	8.77	9.67
INTEREST	68.57	49.52	52.51
TOTAL, FIXED EXPENSES	105.65	78.99	83.69
TOTAL, CASH EXPENSES	309.57	270.48	283.26
RECEIPTS LESS CASH EXPENSES	149.07	119.81	151.03
CAPITAL REPLACEMENT	44.77	48.43	53.07
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	104.30	71.38	97.96
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ECONOMIC COSTS:			
VARIABLE EXPENSES	203.92	191.49	199.57
GENERAL FARM OVERHEAD	28.55	20.70	21.51
TAXES AND INSURANCE	8.53	8.77	9.67
CAPITAL REPLACEMENT	44.77	48.43	53.07
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	9.36	7.25	5.86
RETURN TO OTHER NONLAND CAPITAL	17.17	18.45	20.09
NET LAND RENT	72.18	63.30	71.67
LABOR (PAID AND UNPAID) <u>3/</u>	34.01	36.08	36.73
TOTAL, ECONOMIC COSTS	418.49	394.47	418.17
RESIDUAL RETURNS TO MANAGEMENT AND RISK	40.15	-4.18	16.12
NET RETURNS TO OWNED INPUTS	172.87	120.90	150.47
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.26	.25	.25
YIELD (LBS./PLANTED ACRE)	1,718.39	1,523.50	1,674.25

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 48--PEANUT PRODUCTION COSTS, VIRGINIA AND NORTH CAROLINA,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	887.49	745.40	521.32
SECONDARY CROP	7.99	8.51	9.79
TOTAL	895.48	753.91	531.11
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CASH EXPENSES:			
SEED	62.41	75.60	78.58
FERTILIZER	10.47	9.87	9.25
LIME AND GYPSUM	26.08	23.76	23.56
CHEMICALS	88.29	95.25	100.01
CUSTOM OPERATIONS	9.64	9.87	9.84
FUEL AND LUBRICATION	31.16	29.90	26.36
REPAIRS	15.04	16.35	17.27
DRYING	71.27	62.53	44.45
MISCELLANEOUS	.12	.13	.13
MANAGEMENT FEES	.22	.22	.22
TOTAL, VARIABLE EXPENSES	314.70	323.48	309.67
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GENERAL FARM OVERHEAD	46.68	36.15	36.84
TAXES AND INSURANCE	11.61	12.45	13.25
INTEREST	127.97	138.35	143.80
TOTAL, FIXED EXPENSES	186.26	186.95	193.89
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TOTAL, CASH EXPENSES	500.96	510.43	503.56
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RECEIPTS LESS CASH EXPENSES	394.52	243.48	27.55
CAPITAL REPLACEMENT	47.06	51.20	54.06
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	347.46	192.28	-26.51
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ECONOMIC COSTS:			
VARIABLE EXPENSES	314.70	323.48	309.67
GENERAL FARM OVERHEAD	46.68	36.15	36.84
TAXES AND INSURANCE	11.61	12.45	13.25
CAPITAL REPLACEMENT	47.06	51.20	54.06
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	14.43	12.66	10.22
RETURN TO OTHER NONLAND CAPITAL	18.91	20.56	21.49
NET LAND RENT	164.43	132.83	81.71
LABOR (PAID AND UNPAID) <u>3/</u>	29.36	30.73	31.47
TOTAL, ECONOMIC COSTS	647.18	620.06	558.71
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RESIDUAL RETURNS TO MANAGEMENT AND RISK	248.30	133.85	-27.60
NET RETURNS TO OWNED INPUTS	475.43	330.63	117.29
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.28	.27	.25
YIELD (LBS./PLANTED ACRE)	3,165.37	2,808.41	2,067.68

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 49--U.S. FLAX PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	79.63	72.22	78.58
TOTAL	79.63	72.22	78.58
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CASH EXPENSES:			
SEED	7.63	6.77	5.35
FERTILIZER	3.04	2.82	2.76
CHEMICALS	2.39	2.46	2.60
CUSTOM OPERATIONS	1.14	1.23	1.09
FUEL AND LUBRICATION	8.25	8.03	7.02
REPAIRS	6.65	7.24	7.60
TOTAL, VARIABLE EXPENSES	29.10	28.55	26.42
GENERAL FARM OVERHEAD	4.84	4.07	4.10
TAXES AND INSURANCE	6.04	6.62	6.49
INTEREST	13.07	12.19	12.54
TOTAL, FIXED EXPENSES	23.95	22.88	23.13
TOTAL, CASH EXPENSES	53.05	51.43	49.55
RECEIPTS LESS CASH EXPENSES	26.58	20.79	29.03
CAPITAL REPLACEMENT	17.94	19.42	20.79
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	8.64	1.37	8.24
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ECONOMIC COSTS:			
VARIABLE EXPENSES	29.10	28.55	26.42
GENERAL FARM OVERHEAD	4.84	4.07	4.10
TAXES AND INSURANCE	6.04	6.62	6.49
CAPITAL REPLACEMENT	17.94	19.42	20.79
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	1.41	1.11	.82
RETURN TO OTHER NONLAND CAPITAL	6.74	7.32	7.73
NET LAND RENT	23.12	25.20	26.64
LABOR (PAID AND UNPAID) <u>3/</u>	7.18	7.28	7.31
TOTAL, ECONOMIC COSTS	96.37	99.57	100.30
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-16.74	-27.35	-21.72
NET RETURNS TO OWNED INPUTS	21.71	13.56	20.78
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HARVEST PERIOD PRICE (DOLLARS/BU.)	6.59	5.34	6.89
YIELD (BU./PLANTED ACRE)	12.09	13.53	11.41

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 30 - U.S. COTTON PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	286.69	319.37	308.95
SECONDARY CROP	38.86	35.17	65.14
TOTAL	325.55	354.54	374.09
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CASH EXPENSES:			
SEED	8.30	8.53	8.34
FERTILIZER	21.66	23.28	19.09
LIME AND GYPSUM	.96	1.14	1.10
CHEMICALS	42.27	47.67	48.77
CUSTOM OPERATIONS	14.26	15.75	15.69
FUEL AND LUBRICATION	35.19	35.93	32.53
REPAIRS	17.37	18.95	19.98
PURCHASED IRRIGATION WATER	5.41	6.48	6.27
GINNING	46.87	49.88	44.37
MISCELLANEOUS	1.13	1.37	1.28
MANAGEMENT FEES	1.24	1.44	1.31
TOTAL, VARIABLE EXPENSES	194.66	210.42	198.73
GENERAL FARM OVERHEAD	20.89	23.74	23.12
TAXES AND INSURANCE	9.95	9.40	9.78
INTEREST	52.91	56.47	56.23
TOTAL, FIXED EXPENSES	83.75	89.61	89.13
TOTAL, CASH EXPENSES	278.41	300.03	287.86
RECEIPTS LESS CASH EXPENSES	47.14	54.51	86.23
CAPITAL REPLACEMENT	38.21	42.22	44.34
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	8.93	12.29	41.89
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ECONOMIC COSTS:			
VARIABLE EXPENSES	194.66	210.42	198.73
GENERAL FARM OVERHEAD	20.89	23.74	23.12
TAXES AND INSURANCE	9.95	9.40	9.78
CAPITAL REPLACEMENT	38.21	42.22	44.34
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	8.83	7.79	5.86
RETURN TO OTHER NONLAND CAPITAL	12.75	14.03	14.61
NET LAND RENT	50.55	55.87	61.57
LABOR (PAID AND UNPAID) <u>3/</u>	30.41	32.83	32.38
TOTAL, ECONOMIC COSTS	366.25	396.30	390.39
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-40.70	-41.76	-16.30
NET RETURNS TO OWNED INPUTS	61.84	68.76	98.12
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.55	.58	.66
YIELD (LBS./PLANTED ACRE)	523.88	550.99	465.48

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 51--COTTON PRODUCTION COSTS, DELTA, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	295.46	426.17	356.82
SECONDARY CROP	34.50	36.70	71.28
TOTAL	329.96	462.87	428.10
CASH EXPENSES:			
SEED	6.16	6.20	6.30
FERTILIZER	31.36	31.22	30.24
LIME AND GYPSUM	1.71	1.85	1.85
CHEMICALS	71.81	78.42	80.56
CUSTOM OPERATIONS	8.72	9.37	9.73
FUEL AND LUBRICATION	28.70	28.39	22.98
REPAIRS	18.05	20.56	21.30
GINNING	37.05	55.09	41.61
MISCELLANEOUS	2.59	2.91	2.83
MANAGEMENT FEES	2.45	2.59	2.46
TOTAL, VARIABLE EXPENSES	208.60	236.60	219.86
GENERAL FARM OVERHEAD	18.83	22.87	23.10
TAXES AND INSURANCE	7.91	8.58	9.05
INTEREST	45.68	76.02	78.50
TOTAL, FIXED EXPENSES	72.42	107.47	110.65
TOTAL, CASH EXPENSES	281.02	344.07	330.51
RECEIPTS LESS CASH EXPENSES	48.94	118.80	97.59
CAPITAL REPLACEMENT	45.66	51.65	53.50
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.28	67.15	44.09
ECONOMIC COSTS:			
VARIABLE EXPENSES	208.60	236.60	219.86
GENERAL FARM OVERHEAD	18.83	22.87	23.10
TAXES AND INSURANCE	7.91	8.58	9.05
CAPITAL REPLACEMENT	45.66	51.65	53.50
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	8.65	7.30	5.66
RETURN TO OTHER NONLAND CAPITAL	14.72	16.75	17.10
NET LAND RENT	55.55	64.95	59.08
LABOR (PAID AND UNPAID) <u>3/</u>	24.60	26.53	26.68
TOTAL, ECONOMIC COSTS	384.52	435.23	414.03
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-54.56	27.64	14.07
NET RETURNS TO OWNED INPUTS	48.96	143.17	122.59
HARVEST PERIOD PRICE (DOLLARS/LB.)	.56	.58	.66
YIELD (LBS./PLANTED ACRE)	524.32	732.53	537.41

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 52--COTTON PRODUCTION COSTS, SOUTHEAST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	301.61	427.81	272.50
SECONDARY CROP	34.95	35.27	52.01
TOTAL	336.56	463.08	324.51
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CASH EXPENSES:			
SEED	5.46	5.26	5.56
FERTILIZER	41.68	42.69	40.73
LIME AND GYPSUM	6.60	6.72	6.82
CHEMICALS	94.31	101.31	105.12
CUSTOM OPERATIONS	10.72	11.30	11.79
FUEL AND LUBRICATION	25.94	25.19	21.22
REPAIRS	16.55	18.54	18.91
GINNING	39.56	60.06	34.12
MISCELLANEOUS	2.70	2.73	2.72
MANAGEMENT FEES	1.94	1.87	1.83
TOTAL, VARIABLE EXPENSES	245.46	275.67	248.82
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GENERAL FARM OVERHEAD	12.46	17.24	17.65
TAXES AND INSURANCE	8.29	8.88	9.32
INTEREST	51.25	71.12	72.71
TOTAL, FIXED EXPENSES	72.00	97.24	99.68
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TOTAL, CASH EXPENSES	317.46	372.91	348.50
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RECEIPTS LESS CASH EXPENSES	19.10	90.17	-23.99
CAPITAL REPLACEMENT	46.98	51.84	53.63
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-27.88	38.33	-77.62
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ECONOMIC COSTS:			
VARIABLE EXPENSES	245.46	275.67	248.82
GENERAL FARM OVERHEAD	12.46	17.24	17.65
TAXES AND INSURANCE	8.29	8.88	9.32
CAPITAL REPLACEMENT	46.98	51.84	53.63
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	10.56	8.83	6.95
RETURN TO OTHER NONLAND CAPITAL	15.69	17.45	17.76
NET LAND RENT	46.21	53.47	47.29
LABOR (PAID AND UNPAID) <u>3/</u>	21.40	22.28	22.02
TOTAL, ECONOMIC COSTS	407.05	455.66	423.44
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RESIDUAL RETURNS TO MANAGEMENT AND RISK	-70.49	7.42	-98.93
NET RETURNS TO OWNED INPUTS	23.37	109.45	-4.91
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.57	.58	.67
YIELD (LBS./PLANTED ACRE)	528.69	739.39	404.09

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 53--COTTON PRODUCTION COSTS, SOUTHERN PLAINS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	174.06	137.64	170.57
SECONDARY CROP	29.09	18.63	41.04
TOTAL	203.15	156.27	211.61
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CASH EXPENSES:			
SEED	9.59	10.23	9.23
FERTILIZER	11.80	10.20	8.41
CHEMICALS	20.80	21.20	23.78
CUSTOM OPERATIONS	7.29	6.51	7.42
FUEL AND LUBRICATION	28.03	26.56	26.25
REPAIRS	14.54	14.69	16.40
PURCHASED IRRIGATION WATER	1.17	1.01	1.30
GINNING	35.37	27.24	29.77
MISCELLANEOUS	.15	.16	.14
TOTAL, VARIABLE EXPENSES	128.74	117.80	122.70
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GENERAL FARM OVERHEAD	13.20	8.59	8.99
TAXES AND INSURANCE	6.31	5.41	6.31
INTEREST	32.00	20.75	22.13
TOTAL, FIXED EXPENSES	51.51	34.75	37.43
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TOTAL, CASH EXPENSES	180.25	152.55	160.13
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RECEIPTS LESS CASH EXPENSES	22.90	3.72	51.48
CAPITAL REPLACEMENT	28.93	29.36	32.94
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.03	-25.64	18.54
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ECONOMIC COSTS:			
VARIABLE EXPENSES	128.74	117.80	122.70
GENERAL FARM OVERHEAD	13.20	8.59	8.99
TAXES AND INSURANCE	6.31	5.41	6.31
CAPITAL REPLACEMENT	28.93	29.36	32.94
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	5.98	4.85	3.83
RETURN TO OTHER NONLAND CAPITAL	9.94	10.02	11.18
NET LAND RENT	33.92	25.75	38.06
LABOR (PAID AND UNPAID) 3/	24.53	24.76	25.24
TOTAL, ECONOMIC COSTS	251.55	226.54	249.25
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RESIDUAL RETURNS TO MANAGEMENT AND RISK	-48.40	-70.27	-37.64
NET RETURNS TO OWNED INPUTS	25.97	-4.89	40.67
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HARVEST PERIOD PRICE (DOLLARS/LB.)	.48	.51	.60
YIELD (LBS./PLANTED ACRE)	362.39	267.63	284.04

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 54--COTTON PRODUCTION COSTS, SOUTHWEST, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	697.48	672.91	725.55
SECONDARY CROP	83.63	81.09	143.15
TOTAL	781.11	754.00	868.70
CASH EXPENSES:			
SEED	7.45	7.68	9.14
FERTILIZER	38.36	44.66	32.39
LIME AND GYPSUM	1.59	1.69	1.79
CHEMICALS	63.53	67.26	69.76
CUSTOM OPERATIONS	49.92	52.24	53.20
FUEL AND LUBRICATION	74.94	76.30	70.90
REPAIRS	27.42	29.36	30.68
PURCHASED IRRIGATION WATER	31.18	32.78	33.93
GINNING	107.19	105.43	101.28
MISCELLANEOUS	2.21	2.41	2.49
MANAGEMENT FEES	4.00	4.00	4.01
TOTAL, VARIABLE EXPENSES	407.79	423.81	409.57
GENERAL FARM OVERHEAD	56.02	70.89	73.00
TAXES AND INSURANCE	27.32	22.18	22.70
INTEREST	143.35	130.00	134.90
TOTAL, FIXED EXPENSES	226.69	223.07	230.60
TOTAL, CASH EXPENSES	634.48	646.88	640.17
RECEIPTS LESS CASH EXPENSES	146.63	107.12	228.53
CAPITAL REPLACEMENT	59.81	64.17	67.10
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	86.82	42.95	161.43
ECONOMIC COSTS:			
VARIABLE EXPENSES	407.79	423.81	409.57
GENERAL FARM OVERHEAD	56.02	70.89	73.00
TAXES AND INSURANCE	27.32	22.18	22.70
CAPITAL REPLACEMENT	59.81	64.17	67.10
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	19.31	16.60	12.63
RETURN TO OTHER NONLAND CAPITAL	19.60	20.99	21.73
NET LAND RENT	108.21	132.21	149.73
LABOR (PAID AND UNPAID) <u>3/</u>	64.23	67.76	68.04
TOTAL, ECONOMIC COSTS	762.29	818.61	824.50
RESIDUAL RETURNS TO MANAGEMENT AND RISK	18.82	-64.61	44.20
NET RETURNS TO OWNED INPUTS	230.17	172.95	296.33
HARVEST PERIOD PRICE (DOLLARS/LB.)	.61	.63	.72
YIELD (LBS./PLANTED ACRE)	1,136.00	1,076.54	1,004.13

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ HIRED LABOR (A CASH EXPENSE) AND UNPAID LABOR COULD NOT BE SEPARATELY IDENTIFIED GIVEN AVAILABLE SURVEY DATA.

TABLE 55--U.S. SUGAR-BEET PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	642.11	701.98	723.77
SECONDARY CROP	3.44	2.98	3.14
TOTAL	645.55	704.96	726.91
CASH EXPENSES:			
SEED	19.18	22.94	26.07
FERTILIZER	58.66	58.08	54.96
CHEMICALS	50.62	52.80	54.53
CUSTOM OPERATIONS	41.78	35.09	35.86
FUEL AND LUBRICATION	47.88	46.30	44.20
REPAIRS	30.11	31.71	33.72
HIRED LABOR	53.94	54.47	55.00
PURCHASED IRRIGATION WATER	11.58	10.70	10.47
MISCELLANEOUS	2.69	2.71	2.81
TOTAL, VARIABLE EXPENSES	316.44	314.80	317.62
GENERAL FARM OVERHEAD	42.38	42.32	43.29
TAXES AND INSURANCE	17.64	17.28	19.99
INTEREST	69.44	68.50	70.16
TOTAL, FIXED EXPENSES	129.46	128.10	133.44
TOTAL, CASH EXPENSES	445.90	442.90	451.06
RECEIPTS LESS CASH EXPENSES	199.65	262.06	275.85
CAPITAL REPLACEMENT	50.91	53.61	56.95
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	148.74	208.45	218.90
ECONOMIC COSTS:			
VARIABLE EXPENSES	316.44	314.80	317.62
GENERAL FARM OVERHEAD	42.38	42.32	43.29
TAXES AND INSURANCE	17.64	17.28	19.99
CAPITAL REPLACEMENT	50.91	53.61	56.95
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	22.39	17.58	13.94
RETURN TO OTHER NONLAND CAPITAL	21.01	22.46	23.62
NET LAND RENT	111.78	97.63	94.81
UNPAID LABOR	35.34	34.78	35.44
TOTAL, ECONOMIC COSTS	617.89	600.46	605.66
RESIDUAL RETURNS TO MANAGEMENT AND RISK	27.66	104.50	121.25
NET RETURNS TO OWNED INPUTS	218.18	276.95	289.06
PRICE (DOLLARS/TON)	29.20	35.40	37.06
YIELD (NET TONS/PLANTED ACRE)	21.99	19.83	19.53

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 56--SUGAR-BEET PRODUCTION COSTS, MICHIGAN AND OHIO, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	525.33	679.48	634.11
TOTAL	525.33	679.48	634.11
CASH EXPENSES:			
SEED	6.48	6.62	8.30
FERTILIZER	85.25	79.08	73.96
CHEMICALS	31.23	33.49	35.17
CUSTOM OPERATIONS	41.39	36.00	42.03
FUEL AND LUBRICATION	27.90	28.26	24.87
REPAIRS	23.38	26.49	26.85
HIRED LABOR	19.30	18.78	19.69
MISCELLANEOUS	2.30	2.30	2.30
TOTAL, VARIABLE EXPENSES	237.23	231.02	233.17
GENERAL FARM OVERHEAD	33.89	51.44	52.19
TAXES AND INSURANCE	21.78	26.14	39.03
INTEREST	69.59	62.17	63.94
TOTAL, FIXED EXPENSES	125.26	139.75	155.16
TOTAL, CASH EXPENSES	362.49	370.77	388.33
RECEIPTS LESS CASH EXPENSES	162.84	308.71	245.78
CAPITAL REPLACEMENT	35.58	40.57	41.59
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	127.26	268.14	204.19
ECONOMIC COSTS:			
VARIABLE EXPENSES	237.23	231.02	233.17
GENERAL FARM OVERHEAD	33.89	51.44	52.19
TAXES AND INSURANCE	21.78	26.14	39.03
CAPITAL REPLACEMENT	35.58	40.57	41.59
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	16.23	12.77	10.15
RETURN TO OTHER NONLAND CAPITAL	15.48	17.80	17.99
NET LAND RENT	90.30	94.59	80.36
UNPAID LABOR	26.08	25.83	26.10
TOTAL, ECONOMIC COSTS	476.57	500.16	500.58
RESIDUAL RETURNS TO MANAGEMENT AND RISK	48.76	179.32	133.53
NET RETURNS TO OWNED INPUTS	196.85	330.31	268.13
PRICE (DOLLARS/TON)	26.83	35.80	34.50
YIELD (NET TONS/PLANTED ACRE)	19.58	18.98	18.38

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 57--SUGAR-BEET PRODUCTION COSTS, MINNESOTA AND NORTH DAKOTA,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	353.50	626.78	650.56
TOTAL	353.50	626.78	650.56
CASH EXPENSES:			
SEED	23.54	27.22	30.95
FERTILIZER	38.91	38.00	35.64
CHEMICALS	42.98	46.03	48.41
CUSTOM OPERATIONS	8.65	9.35	9.41
FUEL AND LUBRICATION	30.84	30.40	26.87
REPAIRS	26.19	29.35	30.84
HIRED LABOR	32.47	34.63	33.91
MISCELLANEOUS	.49	.49	.43
TOTAL, VARIABLE EXPENSES	204.07	215.47	216.46
GENERAL FARM OVERHEAD	22.58	41.81	42.64
TAXES AND INSURANCE	12.82	14.05	15.08
INTEREST	52.22	72.20	73.07
TOTAL, FIXED EXPENSES	87.62	128.06	130.79
TOTAL, CASH EXPENSES	291.69	343.53	347.25
RECEIPTS LESS CASH EXPENSES	61.81	283.25	303.31
CAPITAL REPLACEMENT	45.05	50.99	53.70
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	16.76	232.26	249.61
ECONOMIC COSTS:			
VARIABLE EXPENSES	204.07	215.47	216.46
GENERAL FARM OVERHEAD	22.58	41.81	42.64
TAXES AND INSURANCE	12.82	14.05	15.08
CAPITAL REPLACEMENT	45.05	50.99	53.70
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	13.37	11.38	8.94
RETURN TO OTHER NONLAND CAPITAL	19.85	22.62	23.54
NET LAND RENT	78.50	62.00	61.12
UNPAID LABOR	21.73	23.02	22.35
TOTAL, ECONOMIC COSTS	417.97	441.34	443.83
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-64.47	185.44	206.73
NET RETURNS TO OWNED INPUTS	68.98	304.46	322.68
PRICE (DOLLARS/TON)	20.20	34.86	37.41
YIELD (NET TONS/PLANTED ACRE)	17.50	17.98	17.39

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 58--SUGAR-BEET PRODUCTION COSTS, KANSAS, COLORADO, NEBRASKA, AND SOUTHEASTERN WYOMING, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	763.09	633.58	524.02
SECONDARY CROP	7.77	7.03	7.49
TOTAL	770.86	640.61	531.51
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CASH EXPENSES:			
SEED	18.85	19.32	20.98
FERTILIZER	46.92	47.34	44.23
CHEMICALS	39.09	41.77	44.75
CUSTOM OPERATIONS	19.35	17.44	14.61
FUEL AND LUBRICATION	57.06	54.93	51.56
REPAIRS	32.86	32.33	34.02
HIRED LABOR	59.17	67.28	69.11
PURCHASED IRRIGATION WATER	6.35	6.86	7.78
MISCELLANEOUS	.92	.78	.91
TOTAL, VARIABLE EXPENSES	280.57	288.05	287.95
GENERAL FARM OVERHEAD	47.39	32.44	32.65
TAXES AND INSURANCE	16.54	16.69	19.58
INTEREST	97.52	71.46	78.54
TOTAL, FIXED EXPENSES	161.45	120.59	130.77
TOTAL, CASH EXPENSES	442.02	408.64	418.72
RECEIPTS LESS CASH EXPENSES	328.84	231.97	112.79
CAPITAL REPLACEMENT	59.18	57.55	60.69
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	269.66	174.42	52.10
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ECONOMIC COSTS:			
VARIABLE EXPENSES	280.57	288.05	287.95
GENERAL FARM OVERHEAD	47.39	32.44	32.65
TAXES AND INSURANCE	16.54	16.69	19.58
CAPITAL REPLACEMENT	59.18	57.55	60.69
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	17.94	14.75	11.54
RETURN TO OTHER NONLAND CAPITAL	23.36	23.17	24.18
NET LAND RENT	145.78	109.23	81.80
UNPAID LABOR	42.20	45.68	45.57
TOTAL, ECONOMIC COSTS	632.96	587.56	563.96
RESIDUAL RETURNS TO MANAGEMENT AND RISK	137.90	53.05	-32.45
NET RETURNS TO OWNED INPUTS	367.18	245.88	130.64
<hr/>			
PRICE (DOLLARS/TON)	33.90	35.16	32.05
YIELD (NET TONS/PLANTED ACRE)	22.51	18.02	16.35

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 59--SUGAR-BEET PRODUCTION COSTS, TEXAS AND NEW MEXICO, 1981-83 1/ 2/

ITEM	1981	1982	1983
	<u>DOLLARS PER PLANTED ACRE</u>		
CASH RECEIPTS:			
PRIMARY CROP	671.72	663.72	652.12
SECONDARY CROP	14.56	13.16	14.04
TOTAL	686.28	676.88	666.16
CASH EXPENSES:			
SEED	19.22	19.64	32.32
FERTILIZER	31.35	29.30	27.58
CHEMICALS	96.03	103.00	108.16
CUSTOM OPERATIONS	78.52	65.48	67.59
FUEL AND LUBRICATION	83.29	91.15	96.85
REPAIRS	47.80	46.82	49.94
HIRED LABOR	42.33	45.19	43.96
TOTAL, VARIABLE EXPENSES	398.54	400.58	426.40
GENERAL FARM OVERHEAD	52.91	48.85	50.11
TAXES AND INSURANCE	9.78	9.73	10.30
INTEREST	63.21	48.85	49.84
TOTAL, FIXED EXPENSES	125.90	107.43	110.25
TOTAL, CASH EXPENSES	524.44	508.01	536.65
RECEIPTS LESS CASH EXPENSES	161.84	168.87	129.51
CAPITAL REPLACEMENT	63.69	60.22	64.21
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	98.15	108.65	65.30
ECONOMIC COSTS:			
VARIABLE EXPENSES	398.54	400.58	426.40
GENERAL FARM OVERHEAD	52.91	48.85	50.11
TAXES AND INSURANCE	9.78	9.73	10.30
CAPITAL REPLACEMENT	63.69	60.22	64.21
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	28.05	22.60	18.73
RETURN TO OTHER NONLAND CAPITAL	21.85	21.78	23.04
NET LAND RENT	80.64	74.58	67.44
UNPAID LABOR	41.26	43.73	42.57
TOTAL, ECONOMIC COSTS	696.72	682.07	702.80
RESIDUAL RETURNS TO MANAGEMENT AND RISK	-10.44	-5.19	-36.64
NET RETURNS TO OWNED INPUTS	161.36	157.50	115.14
PRICE (DOLLARS/TON)	30.63	36.69	35.48
YIELD (NET TONS/PLANTED ACRE)	21.93	18.09	18.38

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 60--SUGAR-BEET PRODUCTION COSTS, MONTANA, NORTHWESTERN WYOMING, AND SOUTHWESTERN NORTH DAKOTA, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	805.50	853.87	752.92
SECONDARY CROP	17.86	16.14	17.21
TOTAL	823.36	870.01	770.13
CASH EXPENSES:			
SEED	25.00	30.95	36.02
FERTILIZER	78.83	77.62	73.16
CHEMICALS	31.22	33.45	35.13
CUSTOM OPERATIONS	6.53	6.61	6.64
FUEL AND LUBRICATION	43.66	41.51	37.56
REPAIRS	31.59	33.94	35.58
HIRED LABOR	75.86	87.42	97.25
PURCHASED IRRIGATION WATER	12.50	13.10	13.49
MISCELLANEOUS	12.86	16.15	16.92
TOTAL, VARIABLE EXPENSES	318.05	340.75	351.75
GENERAL FARM OVERHEAD	48.51	45.17	45.03
TAXES AND INSURANCE	14.02	14.15	14.95
INTEREST	86.89	68.90	68.75
TOTAL, FIXED EXPENSES	149.42	128.22	128.73
TOTAL, CASH EXPENSES	467.47	468.97	480.48
RECEIPTS LESS CASH EXPENSES	355.89	401.04	289.65
CAPITAL REPLACEMENT	51.63	55.75	58.55
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	304.26	345.29	231.10
ECONOMIC COSTS:			
VARIABLE EXPENSES	318.05	340.75	351.75
GENERAL FARM OVERHEAD	48.51	45.17	45.03
TAXES AND INSURANCE	14.02	14.15	14.95
CAPITAL REPLACEMENT	51.63	55.75	58.55
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	18.74	16.09	14.02
RETURN TO OTHER NONLAND CAPITAL	20.99	22.96	23.84
NET LAND RENT	136.53	141.34	126.71
UNPAID LABOR	32.46	37.13	40.82
TOTAL, ECONOMIC COSTS	640.93	673.34	675.67
RESIDUAL RETURNS TO MANAGEMENT AND RISK	182.43	196.67	94.46
NET RETURNS TO OWNED INPUTS	391.15	414.19	299.85
PRICE (DOLLARS/TON)	37.50	41.25	38.20
YIELD (NET TONS/PLANTED ACRE)	21.48	20.71	19.71

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 61--SUGAR-BEET PRODUCTION COSTS, EASTERN IDAHO, 1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	746.85	806.87	861.71
SECONDARY CROP	1.42	1.28	1.37
TOTAL	748.27	808.15	863.08
=====	=====	=====	=====
CASH EXPENSES:			
SEED	25.46	32.13	35.13
FERTILIZER	79.41	82.43	76.51
CHEMICALS	34.29	36.75	38.59
CUSTOM OPERATIONS	22.05	21.99	23.70
FUEL AND LUBRICATION	74.39	70.97	78.05
REPAIRS	38.06	39.12	42.70
HIRED LABOR	63.41	57.30	65.40
PURCHASED IRRIGATION WATER	14.57	15.21	15.64
MISCELLANEOUS	2.96	2.81	2.90
TOTAL, VARIABLE EXPENSES	354.60	358.71	378.62
GENERAL FARM OVERHEAD	47.22	43.17	44.36
TAXES AND INSURANCE	16.19	16.59	17.13
INTEREST	80.49	56.16	57.71
TOTAL, FIXED EXPENSES	143.90	115.92	119.20
TOTAL, CASH EXPENSES	498.50	474.63	497.82
RECEIPTS LESS CASH EXPENSES	249.77	333.52	365.26
CAPITAL REPLACEMENT	62.87	64.94	70.53
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	186.90	268.58	294.73
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	354.60	358.71	378.62
GENERAL FARM OVERHEAD	47.22	43.17	44.36
TAXES AND INSURANCE	16.19	16.59	17.13
CAPITAL REPLACEMENT	62.87	64.94	70.53
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	21.02	17.06	14.15
RETURN TO OTHER NONLAND CAPITAL	24.68	25.65	27.76
NET LAND RENT	102.23	103.47	114.34
UNPAID LABOR	36.62	32.26	37.58
TOTAL, ECONOMIC COSTS	665.43	661.85	704.47
RESIDUAL RETURNS TO MANAGEMENT AND RISK	82.84	146.30	158.61
NET RETURNS TO OWNED INPUTS	267.39	324.74	352.44
=====	=====	=====	=====
PRICE (DOLLARS/TON)	32.50	37.20	39.08
YIELD (NET TONS/PLANTED ACRE)	22.98	21.69	22.05

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 62--SUGAR-BEET PRODUCTION COSTS, WESTERN IDAHO AND OREGON,
1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER PLANTED ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP	884.45	897.84	1074.66
SECONDARY CROP	.91	.82	.88
TOTAL	885.36	898.66	1075.54
CASH EXPENSES:			
SEED	23.98	31.79	34.76
FERTILIZER	100.08	102.83	97.80
CHEMICALS	53.35	57.20	60.06
CUSTOM OPERATIONS	32.09	31.86	33.23
FUEL AND LUBRICATION	49.43	45.98	44.48
REPAIRS	32.70	33.70	36.42
HIRED LABOR	70.77	66.10	74.41
PURCHASED IRRIGATION WATER	24.56	25.66	26.39
MISCELLANEOUS	.06	.06	.06
TOTAL, VARIABLE EXPENSES	387.02	395.18	407.61
GENERAL FARM OVERHEAD	63.18	48.03	49.35
TAXES AND INSURANCE	18.77	17.93	18.66
INTEREST	98.60	66.35	68.37
TOTAL, FIXED EXPENSES	180.55	132.31	136.38
TOTAL, CASH EXPENSES	567.57	527.49	543.99
RECEIPTS LESS CASH EXPENSES	317.79	371.17	531.55
CAPITAL REPLACEMENT	52.60	54.27	58.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	265.19	316.90	472.94
ECONOMIC COSTS:			
VARIABLE EXPENSES	387.02	395.18	407.61
GENERAL FARM OVERHEAD	63.18	48.03	49.35
TAXES AND INSURANCE	18.77	17.93	18.66
CAPITAL REPLACEMENT	52.60	54.27	58.61
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	25.73	21.08	17.19
RETURN TO OTHER NONLAND CAPITAL	20.78	21.76	23.33
NET LAND RENT	178.58	160.78	175.11
UNPAID LABOR	48.77	44.82	50.79
TOTAL, ECONOMIC COSTS	795.43	763.85	800.65
RESIDUAL RETURNS TO MANAGEMENT AND RISK	89.93	134.81	274.89
NET RETURNS TO OWNED INPUTS	363.79	383.25	541.31
PRICE (DOLLARS/TON)	31.52	37.07	39.05
YIELD (NET TONS/PLANTED ACRE)	28.06	24.22	27.52

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS,
PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES
OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 63--SUGAR-BEET PRODUCTION COSTS, CALIFORNIA AND ARIZONA,
1981-83 1/ 2/

ITEM	1981	1982	1983
	DOLLARS PER PLANTED ACRE		
CASH RECEIPTS:			
PRIMARY CROP	871.61	758.12	882.04
SECONDARY CROP	2.71	2.45	2.61
TOTAL	874.32	760.57	884.65
=====	=====	=====	=====
CASH EXPENSES:			
SEED	13.66	14.81	16.96
FERTILIZER	62.64	65.92	62.35
CHEMICALS	82.56	89.73	92.60
CUSTOM OPERATIONS	119.61	115.76	121.31
FUEL AND LUBRICATION	63.97	68.11	68.03
REPAIRS	31.41	31.72	35.26
HIRED LABOR	82.64	88.99	87.03
PURCHASED IRRIGATION WATER	32.85	34.94	35.04
MISCELLANEOUS	5.18	4.96	5.13
TOTAL, VARIABLE EXPENSES	494.52	514.94	523.71
GENERAL FARM OVERHEAD	60.45	40.56	41.01
TAXES AND INSURANCE	25.44	22.56	24.58
INTEREST	58.49	71.04	73.28
TOTAL, FIXED EXPENSES	144.38	134.16	138.87
TOTAL, CASH EXPENSES	638.90	649.10	662.58
RECEIPTS LESS CASH EXPENSES	235.42	111.47	222.07
CAPITAL REPLACEMENT	54.63	56.40	62.83
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	180.79	55.07	159.24
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	494.52	514.94	523.71
GENERAL FARM OVERHEAD	60.45	40.56	41.01
TAXES AND INSURANCE	25.44	22.56	24.58
CAPITAL REPLACEMENT	54.63	56.40	62.83
ALLOCATED RETURNS TO OWNED INPUTS:			
RETURN TO OPERATING CAPITAL	40.84	34.00	27.25
RETURN TO OTHER NONLAND CAPITAL	22.30	22.98	25.40
NET LAND RENT	123.98	124.90	138.76
UNPAID LABOR	49.90	51.47	53.26
TOTAL, ECONOMIC COSTS	872.06	867.81	896.80
RESIDUAL RETURNS TO MANAGEMENT AND RISK	2.26	-107.24	-12.15
NET RETURNS TO OWNED INPUTS	239.28	126.11	232.52
=====	=====	=====	=====
PRICE (DOLLARS/TON)	32.08	33.12	38.25
YIELD (NET TONS/PLANTED ACRE)	27.17	22.89	23.06

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS,
PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES
OPERATOR AND LANDLORD EXPENSES OR COSTS.

TABLE 64--U.S. SUGARCANE PRODUCTION COSTS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP <u>3/</u>	911.34	1,049.40	1,090.07
HAULING ALLOWANCE	11.97	12.03	13.36
TOTAL	923.31	1,061.43	1,103.43
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CASH EXPENSES:			
SEED	1.35	1.79	1.40
FERTILIZER	87.00	86.36	86.31
CHEMICALS	50.40	53.33	53.83
CUSTOM OPERATIONS	32.65	33.62	33.28
FUEL AND LUBRICATION	72.50	70.99	62.59
REPAIRS	132.65	136.27	135.13
Hired LABOR	295.41	340.98	348.98
PURCHASED IRRIGATION WATER	2.22	2.22	2.22
MISCELLANEOUS	10.69	11.52	12.53
TOTAL, VARIABLE EXPENSES	684.87	737.08	736.27
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GENERAL FARM OVERHEAD	74.17	75.69	77.57
TAXES AND INSURANCE	26.39	28.07	28.44
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	100.56	103.76	106.01
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TOTAL, CASH EXPENSES	785.43	840.84	842.28
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RECEIPTS LESS CASH EXPENSES	137.88	220.59	261.15
CAPITAL REPLACEMENT	61.25	65.79	70.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	76.63	154.80	190.86
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ECONOMIC COSTS:			
VARIABLE EXPENSES	684.87	737.08	736.28
GENERAL FARM OVERHEAD	74.17	75.69	77.57
TAXES AND INSURANCE	26.39	28.07	28.44
CAPITAL REPLACEMENT	61.25	65.79	70.29
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	61.81	52.65	41.17
OTHER NONLAND CAPITAL	46.91	47.78	43.41
LAND	143.51	153.77	153.81
UNPAID LABOR	20.68	22.70	23.51
TOTAL, ECONOMIC COSTS	1,119.59	1,183.53	1,174.48
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RESIDUAL TO MANAGEMENT AND RISK	-196.28	-122.10	-71.05
NET RETURNS TO OWNED INPUTS	76.63	154.80	190.86
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PRICE (DOLLARS/TON)	24.90	26.50	28.24
YIELD (NET TONS/ACRE)	36.60	39.60	38.60

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ INCLUDES RETURNS FROM MOLASSES.

TABLE 65--SUGARCANE PRODUCTION COSTS, FLORIDA, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP <u>3/</u>	815.10	947.52	937.99
TOTAL	815.10	947.52	937.99
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CASH EXPENSES:			
SEED	1.38	2.04	1.93
FERTILIZER	45.79	45.96	45.26
CHEMICALS	37.32	39.33	38.10
CUSTOM OPERATIONS	19.53	21.27	20.22
FUEL AND LUBRICATION	52.99	52.94	46.08
REPAIRS	100.97	98.54	99.59
HIRED LABOR	299.98	358.32	365.02
MISCELLANEOUS	6.10	6.63	6.67
TOTAL, VARIABLE EXPENSES	564.06	625.03	622.87
GENERAL FARM OVERHEAD	53.05	53.31	55.51
TAXES AND INSURANCE	32.83	33.57	34.46
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	85.88	86.88	89.97
TOTAL, CASH EXPENSES	649.94	711.91	712.84
RECEIPTS LESS CASH EXPENSES	165.16	235.61	225.15
CAPITAL REPLACEMENT	35.60	36.20	38.93
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	129.56	199.41	186.22
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ECONOMIC COSTS:			
VARIABLE EXPENSES	564.06	625.03	622.87
GENERAL FARM OVERHEAD	53.05	53.31	55.51
TAXES AND INSURANCE	32.83	33.57	34.46
CAPITAL REPLACEMENT	35.60	36.20	38.93
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	42.64	37.59	29.44
OTHER NONLAND CAPITAL	36.81	34.74	31.09
LAND	149.20	155.70	160.03
TOTAL, ECONOMIC COSTS	914.19	976.14	972.33
RESIDUAL TO MANAGEMENT AND RISK	-99.09	-28.62	-34.34
NET RETURNS TO OWNED INPUTS	129.56	199.41	186.22
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PRICE (DOLLARS/TON)	28.60	28.20	29.13
YIELD (NET TONS/ACRE)	28.50	33.60	32.20

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ INCLUDES RETURNS FROM MOLASSES.

TABLE 66--SUGARCANE PRODUCTION COSTS, HAWAII, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP <u>3/</u>	2,126.75	2,583.32	2,912.47
TOTAL	2,126.75	2,583.32	2,912.47
CASH EXPENSES:			
SEED	5.37	6.38	3.59
FERTILIZER	338.03	367.45	375.14
CHEMICALS	108.89	120.21	122.13
CUSTOM OPERATIONS	106.74	110.74	110.01
FUEL AND LUBRICATION	133.58	155.21	145.25
REPAIRS	422.00	466.74	443.17
Hired LABOR	1,053.61	1,205.16	1,244.40
MISCELLANEOUS	57.56	65.60	72.51
TOTAL, VARIABLE EXPENSES	2,225.78	2,497.49	2,516.20
GENERAL FARM OVERHEAD	258.14	294.36	294.10
TAXES AND INSURANCE	37.37	41.39	42.43
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	295.51	335.75	336.53
TOTAL, CASH EXPENSES	2,521.29	2,833.24	2,852.73
RECEIPTS LESS CASH EXPENSES	-394.54	-249.92	59.74
CAPITAL REPLACEMENT	115.33	137.82	143.23
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-509.87	-387.74	-83.49
ECONOMIC COSTS:			
VARIABLE EXPENSES	2,225.78	2,497.49	2,516.20
GENERAL FARM OVERHEAD	258.14	294.36	294.10
TAXES AND INSURANCE	37.37	41.39	42.43
CAPITAL REPLACEMENT	115.33	137.82	143.23
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	171.80	154.55	121.90
OTHER NONLAND CAPITAL	126.49	140.02	121.01
LAND	230.12	248.34	228.37
TOTAL, ECONOMIC COSTS	3,165.03	3,513.97	3,467.24
RESIDUAL TO MANAGEMENT AND RISK	-1,038.28	-930.65	-554.77
NET RETURNS TO OWNED INPUTS	-509.87	-387.74	-83.49
PRICE (DOLLARS/TON)	23.50	26.20	29.33
YIELD (NET TONS/ACRE)	90.50	98.60	99.30

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ INCLUDES RETURNS FROM MOLASSES.

TABLE 67--SUGARCANE PRODUCTION COSTS, LOUISIANA, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP <u>3/</u>	616.01	692.76	698.18
HAULING ALLOWANCE	34.60	37.09	39.69
TOTAL	650.61	729.85	737.87
CASH EXPENSES:			
FERTILIZER	47.56	45.66	40.68
CHEMICALS	44.01	48.14	49.39
CUSTOM OPERATIONS	16.00	17.91	17.69
FUEL AND LUBRICATION	80.10	72.21	59.62
REPAIRS	63.39	70.60	71.56
HIRED LABOR	14.85	17.39	17.15
TOTAL, VARIABLE EXPENSES	265.91	271.91	256.09
GENERAL FARM OVERHEAD	35.76	30.97	31.56
TAXES AND INSURANCE	15.50	17.23	16.82
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	51.26	48.20	48.38
TOTAL, CASH EXPENSES	317.17	320.11	304.47
RECEIPTS LESS CASH EXPENSES	333.44	409.74	433.40
CAPITAL REPLACEMENT	80.77	90.87	95.10
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	252.67	318.87	338.30
ECONOMIC COSTS:			
VARIABLE EXPENSES	265.91	271.91	256.09
GENERAL FARM OVERHEAD	35.76	30.97	31.56
TAXES AND INSURANCE	15.50	17.23	16.82
CAPITAL REPLACEMENT	80.77	90.87	95.10
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	44.67	37.65	28.18
OTHER NONLAND CAPITAL	35.04	38.86	36.93
LAND	111.44	124.65	125.30
UNPAID LABOR	57.74	67.31	67.73
TOTAL, ECONOMIC COSTS	646.83	679.45	657.71
RESIDUAL TO MANAGEMENT AND RISK	3.78	50.40	80.16
NET RETURNS TO OWNED INPUTS	252.67	318.87	338.30
PRICE (DOLLARS/TON)	22.90	25.10	26.75
YIELD (NET TONS/ACRE)	26.90	27.60	26.10

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ INCLUDES RETURNS FROM MOLASSES.

TABLE 68--SUGARCANE PRODUCTION COSTS, TEXAS, 1981-83 1/ 2/

ITEM	1981	1982	1983
<u>DOLLARS PER ACRE</u>			
CASH RECEIPTS:			
PRIMARY CROP <u>3/</u>	500.85	604.50	525.38
TOTAL	500.85	604.50	525.38
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CASH EXPENSES:			
FERTILIZER	59.36	56.45	54.46
CHEMICALS	56.04	60.42	63.32
CUSTOM OPERATIONS	65.87	68.90	71.63
FUEL AND LUBRICATION	35.68	34.08	30.99
REPAIRS	115.76	118.54	122.20
HIRED LABOR	120.29	126.11	125.29
PURCHASED IRRIGATION WATER	42.96	45.12	46.55
TOTAL, VARIABLE EXPENSES	495.96	509.62	514.44
GENERAL FARM OVERHEAD	34.02	46.71	47.65
TAXES AND INSURANCE	10.58	10.55	11.14
INTEREST	N/A	N/A	N/A
TOTAL, FIXED EXPENSES	44.60	57.26	58.79
TOTAL, CASH EXPENSES	540.56	566.88	573.23
RECEIPTS LESS CASH EXPENSES	-39.71	37.62	-47.85
CAPITAL REPLACEMENT	18.23	19.20	20.39
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-57.94	18.42	-68.24
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ECONOMIC COSTS:			
VARIABLE EXPENSES	495.96	509.62	514.44
GENERAL FARM OVERHEAD	34.02	46.71	47.65
TAXES AND INSURANCE	10.58	10.55	11.14
CAPITAL REPLACEMENT	18.23	19.20	20.39
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	56.24	46.69	36.69
OTHER NONLAND CAPITAL	6.55	6.85	7.30
LAND	74.94	88.75	91.25
UNPAID LABOR	14.45	15.57	15.07
TOTAL, ECONOMIC COSTS	710.97	743.94	743.93
RESIDUAL TO MANAGEMENT AND RISK	-210.12	-139.44	-218.55
NET RETURNS TO OWNED INPUTS	-57.94	18.42	-68.24
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PRICE (DOLLARS/TON)	15.90	19.50	17.87
YIELD (NET TONS/ACRE)	31.50	31.00	29.40

1/ TO ESTIMATE THE TOTAL EXPENSE OR COST OF PRODUCTION FROM THESE ITEMS, PLEASE REFER TO TEXT SECTION "USING COST OF PRODUCTION DATA". 2/ INCLUDES OPERATOR AND LANDLORD EXPENSES OR COSTS. 3/ INCLUDES RETURNS FROM MOLASSES.

TABLE 69--U.S. FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FED BEEF (100 lbs) <u>1/</u>	63.41	63.62	62.12
TOTAL	63.41	63.62	62.12
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CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (59.4 lbs)	40.76	36.90	37.62
FEED--			
HAYLAGE (10.6 lbs)	.06	.06	.07
SILAGE (100.6 lbs)	1.35	1.12	.96
DRY GRAIN (226.3 lbs)	12.24	9.99	12.75
CONCENTRATES (19.3 lbs)	1.03	.76	.58
PROTEIN SUPPLEMENTS (37.9 lbs)	4.09	3.94	4.24
LEGUME HAY (41.5 lbs)	1.27	1.24	1.37
OTHER ROUGHAGES (6.2 lbs)	.32	.32	.34
PASTURE (.0004 ac)	0	0	0
CROP RESIDUE (.008 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	.87	.93	.98
LIVESTOCK HAULING	.47	.50	.51
MARKETING	.21	.22	.21
BEDDING (4.4 lbs)	.06	.05	.05
LEGAL AND ACCOUNTING FEES	.18	.19	.20
FUEL, LUBE, AND ELECTRICITY	1.47	1.53	1.47
MACHINERY AND BUILDING REPAIRS	.57	.59	.58
HIRED LABOR (.11 hr)	.60	.62	.64
MISCELLANEOUS	.23	.25	.27
MANURE CREDIT	-.11	-.11	-.10
TOTAL, VARIABLE EXPENSES	65.67	59.10	62.74
GENERAL FARM OVERHEAD	.26	.29	.30
TAXES AND INSURANCE	.17	.19	.18
HIRED MANAGEMENT	.12	.13	.14
INTEREST	4.61	4.81	4.22
TOTAL, FIXED EXPENSES	5.16	5.42	4.84
TOTAL, CASH EXPENSES	70.83	64.52	67.58
RECEIPTS LESS CASH EXPENSES	-7.42	-.90	-5.46
CAPITAL REPLACEMENT	1.23	1.25	1.21
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.65	-2.15	-6.67
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ECONOMIC COSTS:			
VARIABLE EXPENSES	65.67	59.10	62.74
GENERAL FARM OVERHEAD	.26	.29	.30
TAXES AND INSURANCE	.17	.19	.18
CAPITAL REPLACEMENT	1.23	1.25	1.21
HIRED MANAGEMENT	.12	.13	.14
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.34	1.63	1.31
OTHER NONLAND CAPITAL	.48	.51	.48
LAND	.28	.25	.20
UNPAID LABOR (.11 hr)	.60	.60	.52
TOTAL, ECONOMIC COSTS	71.15	63.95	67.08
RESIDUAL TO MANAGEMENT AND RISK	-7.74	-.33	-4.96
NET RETURNS TO OWNED INPUTS	-4.04	2.66	-2.45

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 70--FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES,
FARMER FEEDLOTS, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FED BEEF (100 lbs) 1/	63.24	63.57	62.03
TOTAL	63.24	63.57	62.03
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CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (55.0 lbs)	39.38	34.18	35.21
FEED--			
HAYLAGE (48.0 lbs)	.24	.25	.31
SILAGE (314.0 lbs)	3.41	2.91	2.68
DRY GRAIN (170.9 lbs)	8.79	7.14	9.00
CONCENTRATES (87.4 lbs)	3.86	3.00	2.64
PROTEIN SUPPLEMENTS (23.6 lbs)	3.06	2.94	3.00
LEGUME HAY (54.0 lbs)	.66	.58	.54
PASTURE (.002 ac)	.01	.01	.01
CROP RESIDUE (.035 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	.50	.53	.54
LIVESTOCK HAULING	.64	.68	.70
MARKETING	.31	.33	.32
BEDDING (20.0 lbs)	.24	.21	.22
FUEL, LUBE, AND ELECTRICITY	1.40	1.39	1.25
MACHINERY AND BUILDING REPAIRS	1.38	1.47	1.55
HIRED LABOR (.10 hr)	.49	.51	.52
MANURE CREDIT	-.11	-.11	-.11
TOTAL, VARIABLE EXPENSES	64.26	56.02	58.38
GENERAL FARM OVERHEAD	1.05	1.15	1.19
TAXES AND INSURANCE	.46	.51	.52
INTEREST	5.07	5.29	4.64
TOTAL, FIXED EXPENSES	6.58	6.95	6.35
TOTAL, CASH EXPENSES	70.84	62.97	64.73
RECEIPTS LESS CASH EXPENSES	-7.60	.60	-2.70
CAPITAL REPLACEMENT	3.30	3.48	3.62
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-10.90	-2.88	-6.32
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ECONOMIC COSTS:			
VARIABLE EXPENSES	64.26	56.02	58.38
GENERAL FARM OVERHEAD	1.05	1.15	1.19
TAXES AND INSURANCE	.46	.51	.52
CAPITAL REPLACEMENT	3.30	3.48	3.62
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.98	2.09	1.71
OTHER NONLAND CAPITAL	1.30	1.41	1.43
LAND	.83	.78	.66
UNPAID LABOR (.50 hr)	2.26	2.37	2.37
TOTAL, ECONOMIC COSTS	76.44	67.81	69.88
RESIDUAL TO MANAGEMENT AND RISK	-13.20	-4.24	-7.85
NET RETURNS TO OWNED INPUTS	-5.83	2.41	-1.68

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 71--FED CATTLE PRODUCTION COSTS, PER CWT, ALL SIZES,
COMMERCIAL FEEDLOTS, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FED BEEF (100 lbs) 1/	63.47	63.64	62.15
TOTAL	63.47	63.64	62.15
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CASH EXPENSES:			
FEEDERS--			
FEEDER CATTLE (60.6 lbs)	41.26	37.82	38.30
FEED--			
SILAGE (40.0 lbs)	.60	.51	.47
DRY GRAIN (242.0 lbs)	13.49	10.96	13.82
PROTEIN SUPPLEMENTS (42.0 lbs)	4.47	4.28	4.59
LEGUME HAY (38.0 lbs)	1.49	1.46	1.60
OTHER ROUGHAGES (8.0 lbs)	.43	.43	.44
OTHER--			
VETERINARY AND MEDICINE	1.01	1.06	1.10
LIVESTOCK HAULING	.41	.44	.45
MARKETING	.17	.18	.18
LEGAL AND ACCOUNTING FEES	.24	.25	.26
FUEL, LUBE, AND ELECTRICITY	1.49	1.58	1.53
MACHINERY AND BUILDING REPAIRS	.28	.29	.30
HIRED LABOR (.12 hr)	.64	.66	.68
MISCELLANEOUS	.32	.34	.35
MANURE CREDIT	-.11	-.11	-.10
TOTAL, VARIABLE EXPENSES	66.19	60.15	63.97
TAXES AND INSURANCE	.07	.08	.08
HIRED MANAGEMENT	.16	.17	.18
INTEREST	4.46	4.65	4.08
TOTAL, FIXED EXPENSES	4.69	4.90	4.34
TOTAL, CASH EXPENSES	70.88	65.05	68.31
RECEIPTS LESS CASH EXPENSES	-7.41	-1.41	-6.16
CAPITAL REPLACEMENT	.47	.50	.52
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-7.88	-1.91	-6.68
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ECONOMIC COSTS:			
VARIABLE EXPENSES	66.19	60.15	63.97
TAXES AND INSURANCE	.07	.08	.08
CAPITAL REPLACEMENT	.47	.50	.52
HIRED MANAGEMENT	.16	.17	.18
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.11	1.47	1.20
OTHER NONLAND CAPITAL	.18	.20	.21
LAND	.08	.07	.06
UNPAID LABOR	0	0	0
TOTAL, ECONOMIC COSTS	69.26	62.64	66.22
RESIDUAL TO MANAGEMENT AND RISK	-5.79	1.00	-4.07
NET RETURNS TO OWNED INPUTS	-3.42	2.74	-2.60

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 72--U.S. COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.139 cwt) <u>1/</u>	74.86	74.22	74.62
HEIFER CALVES (.802 cwt)	44.02	44.25	43.80
YEARLING STEERS (1.030 cwt)	67.72	64.73	61.23
YEARLING HEIFERS (.739 cwt)	44.08	42.19	38.89
CULL COWS (.817 cwt)	29.96	30.10	28.64
TOTAL	260.64	255.49	247.18
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CASH EXPENSES:			
FEED--			
GRAIN (1.978 cwt)	9.42	8.31	10.76
SILAGE (.270 ton)	5.51	4.66	6.20
PROTEIN SUPPLEMENTS (1.529 cwt)	18.21	17.26	18.13
SALT AND MINERALS (.330 cwt)	2.41	2.40	2.52
HAY (1.249 tons)	40.23	41.47	39.09
PASTURE (1.131 ac)	17.17	16.78	16.17
PASTURE (1.088 AUM)	9.74	9.80	9.83
PASTURE (1.545 AM)	10.76	12.44	10.90
PRIVATE RANGE (4.562 AUM)	0	0	0
PUBLIC GRAZING (.121 AUM)	.30	.31	.29
PUBLIC GRAZING (.187 AM)	.46	.44	.36
CROP RESIDUE (.308 ac)	0	0	0
CROP RESIDUE (.348 AUM)	.07	.07	.08
OTHER--			
VETERINARY AND MEDICINE	5.52	5.91	6.11
LIVESTOCK HAULING	1.75	1.70	1.74
MARKETING	3.86	3.90	4.00
CUSTOM FEED MIXING	.44	.49	.47
FUEL, LUBE, AND ELECTRICITY	21.72	21.30	19.53
MACHINERY AND BUILDING REPAIRS	19.31	21.17	22.22
HIRED LABOR (3.290 hrs)	13.41	13.02	13.49
TOTAL, VARIABLE EXPENSES	180.29	181.43	181.89
GENERAL FARM OVERHEAD	11.84	13.01	13.43
TAXES AND INSURANCE	19.62	20.87	22.23
INTEREST	43.91	46.75	42.60
TOTAL, FIXED EXPENSES	75.37	80.63	78.26
TOTAL, CASH EXPENSES	255.66	262.06	260.15
RECEIPTS LESS CASH EXPENSES	4.98	-6.57	-12.97
CAPITAL REPLACEMENT	59.22	62.88	65.38
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-54.24	-69.45	-78.35
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ECONOMIC COSTS:			
VARIABLE EXPENSES	180.29	181.43	181.89
GENERAL FARM OVERHEAD	11.84	13.01	13.43
TAXES AND INSURANCE	19.62	20.87	22.23
CAPITAL REPLACEMENT	59.22	62.88	65.38
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	15.86	12.61	10.05
OTHER NONLAND CAPITAL	47.72	46.08	46.83
LAND	136.94	142.61	134.22
UNPAID LABOR (18.289 hrs)	72.11	71.71	74.72
TOTAL, ECONOMIC COSTS	543.60	551.20	548.75
RESIDUAL TO MANAGEMENT AND RISK	-282.96	-295.71	-301.57
NET RETURNS TO OWNED INPUTS	-10.33	-22.70	-35.75

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 73--U.S. COW-CALF PRODUCTION COSTS, PER COW, FEWER THAN 100 COWS,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.251 cwt) 1/	81.47	81.16	81.80
HEIFER CALVES (.853 cwt)	46.13	46.35	46.25
YEARLING STEERS (.858 cwt)	57.57	53.62	52.03
YEARLING HEIFERS (.695 cwt)	42.14	39.11	37.29
CULL COWS (.777 cwt)	28.66	28.68	27.58
TOTAL	255.97	248.92	244.95
CASH EXPENSES:			
FEED--			
GRAIN (2.095 cwt)	10.04	8.68	11.34
SILAGE (.248 ton)	5.11	4.25	5.70
PROTEIN SUPPLEMENTS (1.363 cwt)	16.41	15.35	16.43
SALT AND MINERALS (.323 cwt)	2.66	2.68	2.78
HAY (1.391 tons)	48.27	49.49	47.29
PASTURE (1.395 ac)	20.04	19.86	19.03
PASTURE (.536 AUM)	4.72	4.81	4.79
PASTURE (1.128 AM)	8.06	8.92	8.14
PRIVATE RANGE (3.390 AUM)	0	0	0
PUBLIC GRAZING (.072 AUM)	.18	.17	.19
PUBLIC GRAZING (.038 AM)	.17	.19	.14
CROP RESIDUE (.446 ac)	0	0	0
CROP RESIDUE (.280 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.52	5.92	6.12
LIVESTOCK HAULING	1.24	1.40	1.44
MARKETING	4.16	4.35	4.48
CUSTOM FEED MIXING	.53	.57	.56
FUEL, LUBE, AND ELECTRICITY	26.61	26.14	23.92
MACHINERY AND BUILDING REPAIRS	23.52	25.83	27.12
Hired LABOR (1.682 hrs)	6.53	6.50	6.66
TOTAL, VARIABLE EXPENSES	183.77	185.11	186.13
GENERAL FARM OVERHEAD	13.83	15.20	15.69
TAXES AND INSURANCE	21.33	22.91	24.52
INTEREST	42.79	45.55	41.51
TOTAL, FIXED EXPENSES	77.95	83.66	81.72
TOTAL, CASH EXPENSES	261.72	268.77	267.85
RECEIPTS LESS CASH EXPENSES	-5.75	-19.85	-22.90
CAPITAL REPLACEMENT	70.15	74.64	77.40
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-75.90	-94.49	-100.30
ECONOMIC COSTS:			
VARIABLE EXPENSES	183.77	185.11	186.13
GENERAL FARM OVERHEAD	13.83	15.20	15.69
TAXES AND INSURANCE	21.33	22.91	24.52
CAPITAL REPLACEMENT	70.15	74.64	77.40
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	17.90	14.17	11.36
OTHER NONLAND CAPITAL	52.68	51.13	52.01
LAND	141.07	145.56	136.43
UNPAID LABOR (24.813 hrs)	97.71	96.27	100.60
TOTAL, ECONOMIC COSTS	598.44	604.99	604.14
RESIDUAL TO MANAGEMENT AND RISK	-342.47	-356.07	-359.19
NET RETURNS TO OWNED INPUTS	-33.11	-48.94	-58.79

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 74--U.S. COW-CALF PRODUCTION COSTS, PER COW, 100-499 COWS, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.092 cwt) 1/	72.97	71.78	72.02
HEIFER CALVES (.803 cwt)	45.09	45.37	44.35
YEARLING STEERS (1.151 cwt)	74.95	72.70	67.99
YEARLING HEIFERS (.762 cwt)	45.10	44.11	39.69
CULL COWS (.862 cwt)	31.32	31.66	29.83
TOTAL	269.43	265.62	253.88
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CASH EXPENSES:			
FEED--			
GRAIN (2.339 cwt)	10.67	9.89	12.80
SILAGE (.385 ton)	7.80	6.66	8.80
PROTEIN SUPPLEMENTS (1.801 cwt)	21.21	20.54	21.29
SALT AND MINERALS (.337 cwt)	2.17	2.13	2.23
HAY (1.241 tons)	34.53	35.75	32.62
PASTURE (.767 ac)	12.49	12.12	11.56
PASTURE (1.426 AUM)	12.74	12.83	12.87
PASTURE (2.073 AM)	14.67	17.16	14.96
PRIVATE RANGE (5.392 AUM)	0	0	0
PUBLIC GRAZING (.116 AUM)	.29	.29	.24
PUBLIC GRAZING (.384 AM)	.91	.88	.71
CROP RESIDUE (.184 ac)	0	0	0
CROP RESIDUE (.421 AUM)	.22	.22	.25
OTHER--			
VETERINARY AND MEDICINE	5.81	6.23	6.43
LIVESTOCK HAULING	2.31	1.78	1.82
MARKETING	3.96	3.66	3.76
CUSTOM FEED MIXING	.49	.56	.49
FUEL, LUBE, AND ELECTRICITY	18.12	17.69	16.40
MACHINERY AND BUILDING REPAIRS	15.11	16.83	17.68
HIRED LABOR (4.355 hrs)	18.73	17.14	17.77
TOTAL, VARIABLE EXPENSES	182.23	182.36	182.68
GENERAL FARM OVERHEAD	11.62	12.77	13.18
TAXES AND INSURANCE	17.52	18.42	19.68
INTEREST	45.66	48.61	44.30
TOTAL, FIXED EXPENSES	74.80	79.80	77.16
TOTAL, CASH EXPENSES	257.03	262.16	259.84
RECEIPTS LESS CASH EXPENSES	12.40	3.46	-5.96
CAPITAL REPLACEMENT	48.45	52.13	55.15
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-36.05	-48.67	-61.11
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ECONOMIC COSTS:			
VARIABLE EXPENSES	182.23	182.36	182.68
GENERAL FARM OVERHEAD	11.62	12.77	13.18
TAXES AND INSURANCE	17.52	18.42	19.68
CAPITAL REPLACEMENT	48.45	52.13	55.15
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	14.60	11.69	9.30
OTHER NONLAND CAPITAL	42.99	41.40	42.26
LAND	122.62	127.85	120.50
UNPAID LABOR (13.370 hrs)	52.44	53.46	55.73
TOTAL, ECONOMIC COSTS	492.47	500.08	498.48
RESIDUAL TO MANAGEMENT AND RISK	-223.04	-234.46	-244.60
NET RETURNS TO OWNED INPUTS	9.61	-.06	-16.81

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 75--U.S. COW-CALF PRODUCTION COSTS, PER COW, 500 OR MORE COWS,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (.799 cwt) 1/	52.43	51.65	51.76
HEIFER CALVES (.599 cwt)	33.10	33.15	32.76
YEARLING STEERS (1.443 cwt)	92.17	91.49	82.63
YEARLING HEIFERS (.861 cwt)	49.64	50.26	43.46
CULL COWS (.877 cwt)	32.12	32.27	30.17
TOTAL	259.46	258.82	240.78
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CASH EXPENSES:			
FEED--			
GRAIN (.683 cwt)	4.08	3.18	3.79
SILAGE (.096 ton)	1.93	1.76	2.22
PROTEIN SUPPLEMENTS (1.572 cwt)	18.65	17.44	17.68
SALT AND MINERALS (.340 cwt)	1.94	1.92	2.19
HAY (.699 ton)	20.84	22.07	21.04
PASTURE (.905 ac)	16.23	15.00	15.26
PASTURE (2.525 AUM)	23.16	23.13	23.06
PASTURE (2.004 AM)	12.72	15.92	12.68
PRIVATE RANGE (7.356 AUM)	0	0	0
PUBLIC GRAZING (.326 AUM)	.81	.81	.81
PUBLIC GRAZING (.328 AM)	.57	.51	.40
CROP RESIDUE (.040 ac)	0	0	0
CROP RESIDUE (.449 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	4.87	5.15	5.31
LIVESTOCK HAULING	2.56	2.70	2.75
MARKETING	2.45	2.60	2.67
CUSTOM FEED MIXING	.02	.02	.02
FUEL, LUBE, AND ELECTRICITY	10.17	9.92	9.14
MACHINERY AND BUILDING REPAIRS	11.89	12.26	12.98
HIRED LABOR (7.299 hrs)	29.10	29.99	31.02
TOTAL, VARIABLE EXPENSES	161.99	164.38	163.02
GENERAL FARM OVERHEAD	4.26	4.68	4.83
TAXES AND INSURANCE	17.64	18.24	18.92
INTEREST	44.49	47.36	43.16
TOTAL, FIXED EXPENSES	66.39	70.28	66.91
TOTAL, CASH EXPENSES	228.38	234.66	229.93
RECEIPTS LESS CASH EXPENSES	31.08	24.16	10.85
CAPITAL REPLACEMENT	39.60	39.86	40.71
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.52	-15.70	-29.86
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ECONOMIC COSTS:			
VARIABLE EXPENSES	161.99	164.38	163.02
GENERAL FARM OVERHEAD	4.26	4.68	4.83
TAXES AND INSURANCE	17.64	18.24	18.92
CAPITAL REPLACEMENT	39.60	39.86	40.71
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	10.49	8.38	6.52
OTHER NONLAND CAPITAL	38.50	36.38	36.56
LAND	154.44	164.55	156.77
UNPAID LABOR (3.410 hrs)	13.58	14.03	14.49
TOTAL, ECONOMIC COSTS	440.50	450.50	441.82
RESIDUAL TO MANAGEMENT AND RISK	-181.04	-191.68	-201.04
NET RETURNS TO OWNED INPUTS	35.97	31.66	13.30

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 76--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, GREAT PLAINS,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.045 cwt) 1/	70.94	69.90	71.51
HEIFER CALVES (.820 cwt)	46.75	47.30	46.87
YEARLING STEERS (1.213 cwt)	80.59	78.29	70.70
YEARLING HEIFERS (.843 cwt)	50.69	50.44	42.90
CULL COWS (.622 cwt)	22.09	22.50	20.58
TOTAL	271.06	268.43	252.56
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CASH EXPENSES:			
FEED--			
GRAIN (1.816 cwt)	7.56	6.95	9.27
SILAGE (.373 ton)	7.08	5.97	8.05
PROTEIN SUPPLEMENTS (2.290 cwt)	26.77	24.83	27.10
SALT AND MINERALS (.349 cwt)	1.72	1.44	1.68
HAY (1.076 tons)	32.55	33.29	32.34
PASTURE (4.171 A.M.)	29.60	33.90	29.43
PRIVATE RANGE (8.028 AUM)	0	0	0
PUBLIC GRAZING (.342 A.M.)	.88	.89	.74
CROP RESIDUE (.474 AUM)	.19	.19	.21
OTHER--			
VETERINARY AND MEDICINE	5.43	5.85	6.04
LIVESTOCK HAULING	1.97	1.55	1.57
MARKETING	4.62	4.54	4.68
CUSTOM FEED MIXING	.56	.64	.53
FUEL, LUBE, AND ELECTRICITY	22.61	22.21	20.45
MACHINERY AND BUILDING REPAIRS	16.28	18.67	19.78
HIRED LABOR (3.063 hrs)	12.59	11.52	11.85
TOTAL, VARIABLE EXPENSES	170.41	172.44	173.72
GENERAL FARM OVERHEAD	12.51	13.75	14.19
TAXES AND INSURANCE	16.81	17.35	18.15
INTEREST	46.14	49.12	44.76
TOTAL, FIXED EXPENSES	75.46	80.22	77.10
TOTAL, CASH EXPENSES	245.87	252.66	250.82
RECEIPTS LESS CASH EXPENSES	25.19	15.77	1.74
CAPITAL REPLACEMENT	53.67	56.90	59.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-28.48	-41.13	-57.87
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ECONOMIC COSTS:			
VARIABLE EXPENSES	170.41	172.44	173.72
GENERAL FARM OVERHEAD	12.51	13.75	14.19
TAXES AND INSURANCE	16.81	17.35	18.15
CAPITAL REPLACEMENT	53.67	56.90	59.61
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	11.83	9.47	7.66
OTHER NONLAND CAPITAL	44.50	43.05	43.75
LAND	123.89	134.90	128.39
UNPAID LABOR (17.132 hrs)	62.82	65.08	67.10
TOTAL, ECONOMIC COSTS	496.44	512.94	512.57
RESIDUAL TO MANAGEMENT AND RISK	-225.38	-244.51	-260.01
NET RETURNS TO OWNED INPUTS	17.66	7.99	-13.11

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 77--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, NORTH-CENTRAL,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.214 cwt) 1/	79.36	79.81	81.05
HEIFER CALVES (.741 cwt)	40.53	40.42	41.30
YEARLING STEERS (.953 cwt)	69.02	58.19	62.55
YEARLING HEIFERS (.807 cwt)	51.91	43.41	46.66
CULL COWS (.995 cwt)	34.80	35.14	35.64
TOTAL	275.62	256.97	267.20
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CASH EXPENSES:			
FEED--			
GRAIN (2.401 cwt)	11.89	9.50	12.23
SILAGE (.440 ton)	9.83	8.05	10.54
PROTEIN SUPPLEMENTS (1.024 cwt)	12.76	12.18	13.11
SALT AND MINERALS (.320 cwt)	3.60	3.81	3.89
HAY (1.456 tons)	47.00	47.38	45.21
PASTURE (2.679 ac)	16.39	16.59	15.97
CROP RESIDUE (.527 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.50	5.76	5.96
LIVESTOCK HAULING	1.76	1.88	1.95
MARKETING	2.71	2.57	2.67
CUSTOM FEED MIXING	.11	.11	.12
FUEL, LUBE, AND ELECTRICITY	20.48	20.66	19.24
MACHINERY AND BUILDING REPAIRS	22.20	23.37	24.42
HIRED LABOR (.828 hr)	3.58	3.26	3.56
TOTAL, VARIABLE EXPENSES	157.81	155.12	158.87
GENERAL FARM OVERHEAD	13.35	14.67	15.14
TAXES AND INSURANCE	35.50	38.75	42.68
INTEREST	44.18	47.03	42.86
TOTAL, FIXED EXPENSES	93.03	100.45	100.68
TOTAL, CASH EXPENSES	250.84	255.57	259.55
RECEIPTS LESS CASH EXPENSES	24.78	1.40	7.65
CAPITAL REPLACEMENT	67.18	70.00	73.19
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-42.40	-68.60	-65.54
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ECONOMIC COSTS:			
VARIABLE EXPENSES	157.81	155.12	158.87
GENERAL FARM OVERHEAD	13.35	14.67	15.14
TAXES AND INSURANCE	35.50	38.75	42.68
CAPITAL REPLACEMENT	67.18	70.00	73.19
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	16.24	12.44	10.14
OTHER NONLAND CAPITAL	53.57	50.94	52.23
LAND	197.23	199.21	179.89
UNPAID LABOR (23.043 hrs)	99.13	92.62	99.09
TOTAL, ECONOMIC COSTS	640.01	633.75	631.23
RESIDUAL TO MANAGEMENT AND RISK	-364.39	-376.78	-364.03
NET RETURNS TO OWNED INPUTS	1.78	-21.57	-22.68

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 78--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, SOUTH, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.341 cwt) 1/	84.81	82.30	82.89
HEIFER CALVES (.911 cwt)	46.77	45.27	45.29
YEARLING STEERS (.519 cwt)	31.88	30.99	32.39
YEARLING HEIFERS (.379 cwt)	20.80	19.31	21.17
CULL COWS (.895 cwt)	35.68	34.65	33.52
TOTAL	219.94	212.52	215.26
CASH EXPENSES:			
FEED--			
GRAIN (2.123 cwt)	11.84	9.72	12.22
SILAGE (.159 ton)	3.41	2.91	4.20
PROTEIN SUPPLEMENTS (1.178 cwt)	14.96	13.90	14.21
SALT AND MINERALS (.278 cwt)	3.17	3.36	3.45
HAY (1.266 tons)	49.72	52.47	50.12
PASTURE (2.834 ac)	57.10	57.62	56.09
CROP RESIDUE (.912 ac)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.39	5.65	5.83
LIVESTOCK HAULING	.85	.91	.95
MARKETING	4.15	4.16	4.19
CUSTOM FEED MIXING	.92	.98	1.04
FUEL, LUBE, AND ELECTRICITY	24.70	23.94	21.03
MACHINERY AND BUILDING REPAIRS	23.98	25.64	26.84
HIRED LABOR (3.746 hrs)	15.23	14.52	14.94
TOTAL, VARIABLE EXPENSES	215.42	215.78	215.11
GENERAL FARM OVERHEAD	10.67	11.72	12.10
TAXES AND INSURANCE	16.81	18.57	20.06
INTEREST	36.53	38.89	35.44
TOTAL, FIXED EXPENSES	64.01	69.18	67.60
TOTAL, CASH EXPENSES	279.43	284.96	282.71
RECEIPTS LESS CASH EXPENSES	-59.49	-72.44	-67.45
CAPITAL REPLACEMENT	71.14	74.74	77.86
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-130.63	-147.18	-145.31
ECONOMIC COSTS:			
VARIABLE EXPENSES	215.42	215.78	215.11
GENERAL FARM OVERHEAD	10.67	11.72	12.10
TAXES AND INSURANCE	16.81	18.57	20.06
CAPITAL REPLACEMENT	71.14	74.74	77.86
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	20.67	16.20	12.85
OTHER NONLAND CAPITAL	53.71	51.09	52.25
LAND	161.11	165.00	159.68
UNPAID LABOR (17.911 hrs)	68.76	66.35	69.80
TOTAL, ECONOMIC COSTS	618.29	619.45	619.71
RESIDUAL TO MANAGEMENT AND RISK	-398.35	-406.93	-404.45
NET RETURNS TO OWNED INPUTS	-94.10	-108.29	-109.87

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 79--COW-CALF PRODUCTION COSTS, PER COW, ALL SIZES, WEST, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
STEER CALVES (1.019 cwt) 1/	66.55	68.11	65.95
HEIFER CALVES (.702 cwt)	39.22	41.03	38.96
YEARLING STEERS (1.339 cwt)	85.26	84.41	75.71
YEARLING HEIFERS (.906 cwt)	52.72	52.61	45.54
CULL COWS (.925 cwt)	32.79	33.85	31.51
TOTAL	276.54	280.01	257.67
CASH EXPENSES:			
FEED--			
GRAIN (1.770 cwt)	7.82	8.08	10.57
SILAGE (.091 ton)	1.70	1.70	1.97
PROTEIN SUPPLEMENTS (1.021 cwt)	11.94	12.26	11.18
SALT AND MINERALS (.360 cwt)	1.73	1.85	1.89
HAY (1.366 tons)	36.78	38.39	33.74
PASTURE (4.915 AUM)	45.05	44.89	44.40
PRIVATE RANGE (7.176 AUM)	0	0	0
PUBLIC GRAZING (.545 AUM)	1.39	1.41	1.30
PUBLIC GRAZING (.271 AM)	.63	.50	.38
CROP RESIDUE (.686 AUM)	0	0	0
OTHER--			
VETERINARY AND MEDICINE	5.82	6.44	6.64
LIVESTOCK HAULING	2.41	2.68	2.72
MARKETING	3.22	3.59	3.70
FUEL, LUBE, AND ELECTRICITY	17.91	17.34	16.60
MACHINERY AND BUILDING REPAIRS	16.79	18.72	19.60
Hired LABOR (5.042 hrs)	20.82	21.63	22.17
TOTAL, VARIABLE EXPENSES	174.01	179.48	176.86
GENERAL FARM OVERHEAD	10.82	11.89	12.27
TAXES AND INSURANCE	14.62	15.24	16.09
INTEREST	48.13	51.24	46.69
TOTAL, FIXED EXPENSES	73.57	78.37	75.05
TOTAL, CASH EXPENSES	247.58	257.85	251.91
RECEIPTS LESS CASH EXPENSES	28.96	22.16	5.76
CAPITAL REPLACEMENT	48.18	53.84	55.21
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-19.22	-31.68	-49.45
ECONOMIC COSTS:			
VARIABLE EXPENSES	174.01	179.48	176.86
GENERAL FARM OVERHEAD	10.82	11.89	12.27
TAXES AND INSURANCE	14.62	15.24	16.09
CAPITAL REPLACEMENT	48.18	53.84	55.21
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	16.91	14.04	10.92
OTHER NONLAND CAPITAL	41.92	42.08	42.32
LAND	83.15	85.94	81.69
UNPAID LABOR (17.138 hrs)	69.32	72.19	74.32
TOTAL, ECONOMIC COSTS	458.93	474.70	469.68
RESIDUAL TO MANAGEMENT AND RISK	-182.39	-194.69	-212.01
NET RETURNS TO OWNED INPUTS	28.91	19.56	-2.76

1/ QUANTITIES PER COW, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 80--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (80.62 lbs) 1/	60.87	85.67	61.73
CULL SOWS (19.38 lbs)	7.62	9.56	7.78
TOTAL	68.49	95.23	69.51
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CASH EXPENSES:			
FEED--			
GRAIN (438.9 lbs)	23.20	18.73	23.79
PROTEIN SUPPLEMENTS (118.5 lbs)	18.77	17.59	18.63
PASTURE (.053 ac)	.22	.22	.19
OTHER--			
VETERINARY AND MEDICINE	1.55	1.62	1.67
LIVESTOCK HAULING	.18	.19	.20
MARKETING	1.49	1.59	1.48
BEDDING (38 lbs)	.46	.38	.39
CUSTOM FEED MIXING	1.46	1.46	1.44
FUEL, LUBE, AND ELECTRICITY	7.68	7.73	7.49
MACHINERY AND BUILDING REPAIRS	4.72	4.93	5.14
HIRED LABOR	1.87	2.13	2.34
MANURE CREDIT (.33 hr)	-.15	-.15	-.15
TOTAL, VARIABLE EXPENSES	61.45	56.42	62.61
GENERAL FARM OVERHEAD	3.38	3.71	3.83
TAXES AND INSURANCE	1.77	1.89	2.10
INTEREST	12.97	13.81	12.58
TOTAL, FIXED EXPENSES	18.12	19.41	18.51
TOTAL, CASH EXPENSES	79.57	75.83	81.12
RECEIPTS LESS CASH EXPENSES	-11.08	19.40	-11.61
CAPITAL REPLACEMENT	11.82	12.36	13.35
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-22.90	7.04	-24.96
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ECONOMIC COSTS:			
VARIABLE EXPENSES	61.45	56.42	62.61
GENERAL FARM OVERHEAD	3.38	3.71	3.83
TAXES AND INSURANCE	1.77	1.89	2.10
CAPITAL REPLACEMENT	11.82	12.36	13.35
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.75	2.09	1.80
OTHER NONLAND CAPITAL	5.48	5.81	6.23
LAND	2.48	2.25	1.92
UNPAID LABOR	18.37	19.29	20.54
TOTAL, ECONOMIC COSTS	107.50	103.82	112.38
RESIDUAL TO MANAGEMENT AND RISK	-39.01	-8.59	-42.87
NET RETURNS TO OWNED INPUTS	-9.93	20.85	-12.38

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 81--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 140 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (79.73 lbs) 1/	59.60	84.80	62.86
CULL SOWS (20.27 lbs)	7.93	9.97	8.12
TOTAL	67.53	94.77	70.98
CASH EXPENSES:			
FEED--			
GRAIN (473.7 lbs)	25.14	20.38	25.98
PROTEIN SUPPLEMENTS (121.0 lbs)	19.29	17.80	19.01
PASTURE (.027 ac)	.56	.57	.50
OTHER--			
VETERINARY AND MEDICINE	2.61	2.73	2.82
MARKETING	1.36	1.48	1.39
BEDDING (32.0 lbs)	.37	.32	.33
CUSTOM FEED MIXING	4.90	5.17	5.36
FUEL, LUBE, AND ELECTRICITY	8.53	8.52	7.90
MACHINERY AND BUILDING REPAIRS	5.30	5.71	6.03
HIRED LABOR (.11 hr)	.37	.40	.41
TOTAL, VARIABLE EXPENSES	68.43	63.08	69.73
GENERAL FARM OVERHEAD	5.19	5.70	5.88
TAXES AND INSURANCE	1.70	1.83	2.07
INTEREST	12.91	13.74	12.52
TOTAL, FIXED EXPENSES	19.80	21.27	20.47
TOTAL, CASH EXPENSES	88.23	84.35	90.20
RECEIPTS LESS CASH EXPENSES	-20.70	10.42	-19.22
CAPITAL REPLACEMENT	12.48	13.36	14.59
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-33.18	-2.94	-33.81
ECONOMIC COSTS:			
VARIABLE EXPENSES	68.43	63.08	69.73
GENERAL FARM OVERHEAD	5.19	5.70	5.88
TAXES AND INSURANCE	1.70	1.83	2.07
CAPITAL REPLACEMENT	12.48	13.36	14.59
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	3.37	2.63	2.25
OTHER NONLAND CAPITAL	5.67	6.15	6.66
LAND	1.79	1.72	1.61
UNPAID LABOR	29.75	31.95	34.29
TOTAL, ECONOMIC COSTS	128.38	126.42	137.08
RESIDUAL TO MANAGEMENT AND RISK	-60.85	-31.65	-66.10
NET RETURNS TO OWNED INPUTS	-20.27	10.80	-21.29

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 82--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 300 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (79.38 lbs) 1/	60.00	84.13	60.55
CULL SOWS (20.62 lbs)	8.08	10.16	8.28
TOTAL	68.08	94.29	68.83
<hr/>			
CASH EXPENSES:			
FEED--			
GRAIN (472.0 lbs)	24.69	20.01	25.45
PROTEIN SUPPLEMENTS (120.1 lbs)	19.12	17.71	18.95
PASTURE (.171 ac)	.36	.37	.34
OTHER--			
VETERINARY AND MEDICINE	3.16	3.30	3.42
LIVESTOCK HAULING	.34	.37	.38
MARKETING	1.50	1.64	1.53
BEDDING (76.0 lbs)	.87	.74	.76
CUSTOM FEED MIXING	2.30	2.42	2.52
FUEL, LUBE, AND ELECTRICITY	11.10	11.29	11.02
MACHINERY AND BUILDING REPAIRS	5.53	5.81	6.06
HIRED LABOR (.10 hr)	.36	.38	.39
MANURE CREDIT	-.18	-.18	-.17
TOTAL, VARIABLE EXPENSES	69.15	63.86	70.65
GENERAL FARM OVERHEAD	4.73	5.20	5.37
TAXES AND INSURANCE	2.44	2.66	2.97
INTEREST	12.84	13.67	12.46
TOTAL, FIXED EXPENSES	20.01	21.53	20.80
TOTAL, CASH EXPENSES	89.16	85.39	91.45
RECEIPTS LESS CASH EXPENSES	-21.08	8.90	-22.62
CAPITAL REPLACEMENT	13.61	14.25	15.32
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-34.69	-5.35	-37.94
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ECONOMIC COSTS:			
VARIABLE EXPENSES	69.15	63.86	70.65
GENERAL FARM OVERHEAD	4.73	5.20	5.37
TAXES AND INSURANCE	2.44	2.66	2.97
CAPITAL REPLACEMENT	13.61	14.25	15.32
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	3.15	2.43	2.09
OTHER NONLAND CAPITAL	6.43	6.81	7.27
LAND	7.16	6.74	5.77
UNPAID LABOR	22.64	24.35	26.30
TOTAL, ECONOMIC COSTS	129.31	126.30	135.74
RESIDUAL TO MANAGEMENT AND RISK	-61.23	-32.01	-66.91
NET RETURNS TO OWNED INPUTS	-21.85	8.32	-25.48

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 83--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 650 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (80.43 lbs) 1/	61.40	85.55	61.56
CULL SOWS (19.57 lbs)	7.67	9.65	7.87
TOTAL	69.07	95.20	69.43
CASH EXPENSES:			
FEED--			
GRAIN (439.5 lbs)	22.93	18.58	23.62
PROTEIN SUPPLEMENTS (122.7 lbs)	19.66	18.64	19.73
PASTURE (.040 ac)	.17	.18	.16
OTHER--			
VETERINARY AND MEDICINE	.37	.38	.40
LIVESTOCK HAULING	.21	.22	.23
MARKETING	2.59	2.83	2.63
BEDDING (42.0 lbs)	.50	.43	.44
FUEL, LUBE, AND ELECTRICITY	6.18	6.28	6.09
MACHINERY AND BUILDING REPAIRS	4.57	4.81	5.03
Hired LABOR (.20 hr)	.81	.87	.93
MANURE CREDIT	-.19	-.19	-.18
TOTAL, VARIABLE EXPENSES	57.80	53.03	59.08
GENERAL FARM OVERHEAD	3.89	4.27	4.41
TAXES AND INSURANCE	1.58	1.69	1.89
INTEREST	12.96	13.80	12.58
TOTAL, FIXED EXPENSES	18.43	19.76	18.88
TOTAL, CASH EXPENSES	76.23	72.79	77.96
RECEIPTS LESS CASH EXPENSES	-7.16	22.41	-8.53
CAPITAL REPLACEMENT	10.84	11.35	12.29
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-18.00	11.06	-20.82
ECONOMIC COSTS:			
VARIABLE EXPENSES	57.80	53.03	59.08
GENERAL FARM OVERHEAD	3.89	4.27	4.41
TAXES AND INSURANCE	1.58	1.69	1.89
CAPITAL REPLACEMENT	10.84	11.35	12.29
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.60	1.99	1.73
OTHER NONLAND CAPITAL	5.08	5.39	5.80
LAND	1.77	1.67	1.45
UNPAID LABOR	17.86	19.20	20.80
TOTAL, ECONOMIC COSTS	101.42	98.59	107.45
RESIDUAL TO MANAGEMENT AND RISK	-32.35	-3.39	-38.02
NET RETURNS TO OWNED INPUTS	-5.04	24.86	-8.24

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 84--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 1,600 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDERS PIGS (80.50 lbs) 1/	61.26	85.63	61.52
CULL SOWS (19.50 lbs)	7.64	9.61	7.83
TOTAL	68.90	95.24	69.35
=====	=====	=====	=====
CASH EXPENSES:			
FEED--			
GRAIN (434.2 lbs)	22.71	18.40	23.41
PROTEIN SUPPLEMENTS (121.2 lbs)	19.44	18.48	19.49
PASTURE (.013 ac)	.07	.07	.06
OTHER--			
VETERINARY AND MEDICINE	.62	.65	.67
LIVESTOCK HAULING	.17	.18	.19
MARKETING	1.14	1.24	1.16
BEDDING (16.0 lbs)	.20	.17	.17
FUEL, LUBE, AND ELECTRICITY	7.54	7.68	7.55
MACHINERY AND BUILDING REPAIRS	4.98	5.24	5.47
Hired LABOR (.18 hr)	.89	.96	.99
MANURE CREDIT	-.18	-.19	-.18
TOTAL, VARIABLE EXPENSES	57.58	52.88	58.98
GENERAL FARM OVERHEAD	2.59	2.85	2.94
TAXES AND INSURANCE	1.80	1.92	2.14
INTEREST	12.97	13.81	12.58
TOTAL, FIXED EXPENSES	17.36	18.58	17.66
TOTAL, CASH EXPENSES	74.94	71.46	76.64
RECEIPTS LESS CASH EXPENSES	-6.04	23.78	-7.29
CAPITAL REPLACEMENT	12.54	13.13	14.09
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-18.58	10.65	-21.38
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	57.58	52.88	58.98
GENERAL FARM OVERHEAD	2.59	2.85	2.94
TAXES AND INSURANCE	1.80	1.92	2.14
CAPITAL REPLACEMENT	12.54	13.13	14.09
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.58	1.96	1.70
OTHER NONLAND CAPITAL	5.83	6.18	6.61
LAND	.59	.56	.49
UNPAID LABOR	16.83	18.12	19.64
TOTAL, ECONOMIC COSTS	100.34	97.60	106.59
RESIDUAL TO MANAGEMENT AND RISK	-31.44	-2.36	-37.24
NET RETURNS TO OWNED INPUTS	-5.61	24.46	-8.80

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 85--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 3,000 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDERS PIGS (81.83 lbs) 1/	61.61	87.08	62.22
CULL SOWS (18.17 lbs)	7.11	8.94	7.28
TOTAL	68.72	96.02	69.50
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CASH EXPENSES:			
FEED--			
GRAIN (409.9 lbs)	21.66	17.56	22.38
PROTEIN SUPPLEMENTS (114.5 lbs)	17.84	16.92	17.86
PASTURE (.007 ac)	.05	.06	.05
OTHER--			
VETERINARY AND MEDICINE	.85	.89	.92
LIVESTOCK HAULING	.10	.10	.11
MARKETING	1.05	1.15	1.08
BEDDING (36.0 lbs)	.44	.39	.40
FUEL, LUBE, AND ELECTRICITY	5.29	5.42	5.41
MACHINERY AND BUILDING REPAIRS	3.85	4.03	4.19
HIRED LABOR (.56 hr)	4.00	4.29	4.56
MANURE CREDIT	-.16	-.16	-.16
TOTAL, VARIABLE EXPENSES	54.97	50.65	56.80
GENERAL FARM OVERHEAD	1.55	1.70	1.75
TAXES AND INSURANCE	1.38	1.47	1.63
INTEREST	13.08	13.92	12.69
TOTAL, FIXED EXPENSES	16.01	17.09	16.07
TOTAL, CASH EXPENSES	70.98	67.74	72.87
RECEIPTS LESS CASH EXPENSES	-2.26	28.28	-3.37
CAPITAL REPLACEMENT	10.45	10.92	11.89
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-12.71	17.36	-15.26
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ECONOMIC COSTS:			
VARIABLE EXPENSES	54.97	50.65	56.80
GENERAL FARM OVERHEAD	1.55	1.70	1.75
TAXES AND INSURANCE	1.38	1.47	1.63
CAPITAL REPLACEMENT	10.45	10.92	11.89
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.30	1.75	1.52
OTHER NONLAND CAPITAL	4.68	4.96	5.35
LAND	.35	.33	.29
UNPAID LABOR	11.69	12.57	13.58
TOTAL, ECONOMIC COSTS	87.37	84.35	92.81
RESIDUAL TO MANAGEMENT AND RISK	-18.65	11.67	-23.31
NET RETURNS TO OWNED INPUTS	.37	31.28	-2.57

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 86--U.S. FEEDER PIG PRODUCTION COSTS, PER CWT, 10,000 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (83.69 lbs) <u>1/</u>	62.25	89.08	63.26
CULL SOWS (16.31 lbs)	6.37	8.01	6.52
TOTAL	68.62	97.09	69.78
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CASH EXPENSES:			
FEED--			
GRAIN (367.3 lbs)	19.65	15.93	20.35
PROTEIN SUPPLEMENTS (102.5 lbs)	14.41	13.49	14.30
OTHER--			
VETERINARY AND MEDICINE	1.80	1.88	1.94
LIVESTOCK HAULING	.11	.12	.12
MARKETING	.43	.47	.44
CUSTOM FEED MIXING	2.28	2.40	2.49
FUEL, LUBE, AND ELECTRICITY	4.06	4.31	4.38
MACHINERY AND BUILDING REPAIRS	2.42	2.47	2.55
HIRED LABOR (1.47 hrs)	10.77	11.58	12.43
MANURE CREDIT	-.14	-.14	-.13
TOTAL, VARIABLE EXPENSES	55.79	52.51	58.87
GENERAL FARM OVERHEAD	.79	.87	.90
TAXES AND INSURANCE	1.04	1.11	1.25
INTEREST	13.23	14.08	12.83
TOTAL, FIXED EXPENSES	15.06	16.06	14.98
TOTAL, CASH EXPENSES	70.85	68.57	73.85
RECEIPTS LESS CASH EXPENSES	-2.23	28.52	-4.07
CAPITAL REPLACEMENT	8.34	8.66	9.56
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-10.57	19.86	-13.63
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ECONOMIC COSTS:			
VARIABLE EXPENSES	55.79	52.51	58.87
GENERAL FARM OVERHEAD	.79	.87	.90
TAXES AND INSURANCE	1.04	1.11	1.25
CAPITAL REPLACEMENT	8.34	8.66	9.56
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.95	1.48	1.30
OTHER NONLAND CAPITAL	3.80	4.00	4.35
LAND	.04	.03	.03
UNPAID LABOR	.76	.78	.82
TOTAL, ECONOMIC COSTS	72.51	69.44	77.08
RESIDUAL TO MANAGEMENT AND RISK	-3.89	27.65	-7.30
NET RETURNS TO OWNED INPUTS	2.66	33.94	-.80

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 87--FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES,
NORTH-CENTRAL, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDER PIGS (79.27 lbs) 1/	61.16	83.95	61.63
CULL SOWS (20.73 lbs)	8.18	10.26	8.35
TOTAL	69.34	94.21	69.98
CASH EXPENSES:			
FEED--			
GRAIN (450.6 lbs)	23.38	18.87	23.90
PROTEIN SUPPLEMENTS (121.8 lbs)	19.14	18.03	19.14
PASTURE (.058 ac)	.08	.08	.08
OTHER--			
VETERINARY AND MEDICINE	1.67	1.74	1.78
LIVESTOCK HAULING	.22	.23	.24
MARKETING	1.39	1.49	1.38
BEDDING (42.0 lbs)	.51	.43	.44
CUSTOM FEED MIXING	1.36	1.35	1.35
FUEL, LUBE, AND ELECTRICITY	8.04	8.05	7.76
MACHINERY AND BUILDING REPAIRS	4.62	4.85	5.05
HIRED LABOR (.20 hr)	1.30	1.49	1.67
MANURE CREDIT	-.19	-.19	-.18
TOTAL, VARIABLE EXPENSES	61.52	56.42	62.61
GENERAL FARM OVERHEAD	3.39	3.72	3.84
TAXES AND INSURANCE	1.81	1.93	2.15
INTEREST	12.83	13.66	12.45
TOTAL, FIXED EXPENSES	18.03	19.31	18.44
TOTAL, CASH EXPENSES	79.55	75.73	81.05
RECEIPTS LESS CASH EXPENSES	-10.21	18.48	-11.07
CAPITAL REPLACEMENT	11.72	12.29	13.30
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-21.93	6.19	-24.37
ECONOMIC COSTS:			
VARIABLE EXPENSES	61.52	56.42	62.61
GENERAL FARM OVERHEAD	3.39	3.72	3.84
TAXES AND INSURANCE	1.81	1.93	2.15
CAPITAL REPLACEMENT	11.72	12.29	13.30
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.75	2.10	1.81
OTHER NONLAND CAPITAL	5.44	5.79	6.21
LAND	2.69	2.44	2.06
UNPAID LABOR	18.44	19.45	20.93
TOTAL, ECONOMIC COSTS	107.76	104.14	112.91
RESIDUAL TO MANAGEMENT AND RISK	-38.42	-9.93	-42.93
NET RETURNS TO OWNED INPUTS	-9.10	19.85	-11.92

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL
RY FOR EARLIER YEARS.

TABLE 88--FEEDER PIG PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHEAST,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
FEEDERS PIGS (86.51 lbs) 1/	59.61	93.07	62.17
CULL SOWS (13.49 lbs)	5.23	6.51	5.26
TOTAL	64.84	99.58	67.43
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CASH EXPENSES:			
FEED--			
GRAIN (387.5 lbs)	22.42	18.13	23.32
PROTEIN SUPPLEMENTS (104.5 lbs)	17.17	15.70	16.42
PASTURE (.034 ac)	.83	.80	.67
OTHER--			
VETERINARY AND MEDICINE	1.06	1.10	1.15
LIVESTOCK HAULING	.01	.01	.01
MARKETING	1.93	2.04	1.91
BEDDING (18.0 lbs)	.24	.19	.19
CUSTOM FEED MIXING	1.94	1.91	1.86
FUEL, LUBE, AND ELECTRICITY	6.09	6.33	6.34
MACHINERY AND BUILDING REPAIRS	5.14	5.31	5.50
HIRED LABOR (.90 hr)	4.36	4.93	5.22
TOTAL, VARIABLE EXPENSES	61.19	56.45	62.59
GENERAL FARM OVERHEAD	3.33	3.66	3.78
TAXES AND INSURANCE	1.62	1.72	1.93
INTEREST	13.56	14.44	13.16
TOTAL, FIXED EXPENSES	18.51	19.82	18.87
TOTAL, CASH EXPENSES	79.70	76.27	81.46
RECEIPTS LESS CASH EXPENSES	-14.86	23.31	-14.03
CAPITAL REPLACEMENT	12.29	12.68	13.59
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-27.15	10.63	-27.62
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ECONOMIC COSTS:			
VARIABLE EXPENSES	61.19	56.45	62.59
GENERAL FARM OVERHEAD	3.33	3.66	3.78
TAXES AND INSURANCE	1.62	1.72	1.93
CAPITAL REPLACEMENT	12.29	12.68	13.59
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.72	2.07	1.76
OTHER NONLAND CAPITAL	5.60	5.91	6.26
LAND	1.54	1.40	1.31
UNPAID LABOR	18.06	18.61	18.67
TOTAL, ECONOMIC COSTS	106.35	102.50	109.89
RESIDUAL TO MANAGEMENT AND RISK	-41.51	-2.92	-42.46
NET RETURNS TO OWNED INPUTS	-13.59	25.07	-14.46

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 89--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT,
ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	43.86	54.53	47.34
TOTAL	43.86	54.53	47.34
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.7 lbs)	17.54	22.40	20.05
FEED--			
GRAIN (239.8 lbs)	12.59	10.19	12.97
PROTEIN SUPPLEMENTS (45.2 lbs)	6.89	6.38	6.81
PASTURE (.001 ac)	.02	.02	.02
OTHER--			
VETERINARY AND MEDICINE	.43	.44	.46
LIVESTOCK HAULING	.14	.15	.16
MARKETING	.39	.42	.39
BEDDING (8.0 lbs)	.11	.10	.10
CUSTOM FEED MIXING	.10	.09	.09
FUEL, LUBE, AND ELECTRICITY	1.50	1.49	1.38
MACHINERY AND BUILDING REPAIRS	1.50	1.59	1.66
HIRED LABOR (.08 hr)	.38	.41	.45
MANURE CREDIT	-.15	-.16	-.15
TOTAL, VARIABLE EXPENSES	41.44	43.52	44.39
GENERAL FARM OVERHEAD	1.01	1.11	1.15
TAXES AND INSURANCE	.36	.39	.42
INTEREST	4.47	4.66	4.09
TOTAL, FIXED EXPENSES	5.84	6.16	5.66
TOTAL, CASH EXPENSES	47.28	49.68	50.05
RECEIPTS LESS CASH EXPENSES	-3.42	4.85	-2.71
CAPITAL REPLACEMENT	2.77	2.92	3.04
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.19	1.93	-5.75
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ECONOMIC COSTS:			
VARIABLE EXPENSES	41.44	43.52	44.39
GENERAL FARM OVERHEAD	1.01	1.11	1.15
TAXES AND INSURANCE	.36	.39	.42
CAPITAL REPLACEMENT	2.77	2.92	3.04
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.99	.83	.66
OTHER NONLAND CAPITAL	1.14	1.22	1.24
LAND	.12	.10	.09
UNPAID LABOR	1.46	1.53	1.62
TOTAL, ECONOMIC COSTS	49.29	51.62	52.61
RESIDUAL TO MANAGEMENT AND RISK	-5.43	2.91	-5.27
NET RETURNS TO OWNED INPUTS	-1.72	6.59	-1.66

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 90--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 140 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	42.95	52.52	49.46
TOTAL	42.95	52.52	49.46
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (23.1 lbs)	17.77	23.97	18.16
FEED--			
GRAIN (241.4 lbs)	12.76	10.34	13.18
PROTEIN SUPPLEMENTS (44.7 lbs)	7.12	6.58	7.03
PASTURE (.005 ac)	.11	.12	.10
OTHER--			
VETERINARY AND MEDICINE	.66	.69	.71
LIVESTOCK HAULING	.08	.08	.08
MARKETING	.61	.67	.62
BEDDING (18.0 lbs)	.20	.18	.18
CUSTOM FEED MIXING	.67	.70	.73
FUEL, LUBE, AND ELECTRICITY	1.75	1.78	1.66
MACHINERY AND BUILDING REPAIRS	1.76	1.86	1.94
HIRED LABOR (.04 hr)	.16	.17	.18
MANURE CREDIT	-.13	-.13	-.12
TOTAL, VARIABLE EXPENSES	43.52	47.01	44.45
GENERAL FARM OVERHEAD	1.56	1.71	1.76
TAXES AND INSURANCE	.43	.46	.50
INTEREST	3.97	4.14	3.63
TOTAL, FIXED EXPENSES	5.96	6.31	5.89
TOTAL, CASH EXPENSES	49.48	53.32	50.34
RECEIPTS LESS CASH EXPENSES	-6.53	-.80	-.88
CAPITAL REPLACEMENT	3.53	3.70	3.84
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-10.06	-4.50	-4.72
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ECONOMIC COSTS:			
VARIABLE EXPENSES	43.52	47.01	44.45
GENERAL FARM OVERHEAD	1.56	1.71	1.76
TAXES AND INSURANCE	.43	.46	.50
CAPITAL REPLACEMENT	3.53	3.70	3.84
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.06	.92	.69
OTHER NONLAND CAPITAL	1.51	1.58	1.59
LAND	.39	.38	.34
UNPAID LABOR	2.79	3.01	3.23
TOTAL, ECONOMIC COSTS	54.79	58.77	56.40
RESIDUAL TO MANAGEMENT AND RISK	-11.84	-6.25	-6.94
NET RETURNS TO OWNED INPUTS	-6.09	-.36	-1.09

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 91—U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 300 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	43.55	54.69	46.47
TOTAL	43.55	54.69	46.47
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.6 lbs)	17.74	22.43	20.46
FEED--			
GRAIN (241.8 lbs)	12.63	10.24	13.02
PROTEIN SUPPLEMENTS (44.6 lbs)	7.10	6.58	7.04
PASTURE (.002 ac)	.04	.04	.03
OTHER--			
VETERINARY AND MEDICINE	.44	.46	.48
LIVESTOCK HAULING	.22	.23	.24
MARKETING	.41	.45	.42
BEDDING (8.0 lbs)	.10	.08	.08
FUEL, LUBE, AND ELECTRICITY	1.80	1.78	1.61
MACHINERY AND BUILDING REPAIRS	1.57	1.68	1.78
HIRED LABOR (.11 hr)	.47	.50	.54
MANURE CREDIT	-.15	-.15	-.14
TOTAL, VARIABLE EXPENSES	42.37	44.32	45.56
GENERAL FARM OVERHEAD	1.61	1.77	1.83
TAXES AND INSURANCE	.36	.39	.43
INTEREST	4.48	4.68	4.11
TOTAL, FIXED EXPENSES	6.45	6.84	6.37
TOTAL, CASH EXPENSES	48.82	51.16	51.93
RECEIPTS LESS CASH EXPENSES	-5.27	3.53	-5.46
CAPITAL REPLACEMENT	2.70	2.88	3.03
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-7.97	.65	-8.49
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ECONOMIC COSTS:			
VARIABLE EXPENSES	42.37	44.32	45.56
GENERAL FARM OVERHEAD	1.61	1.77	1.83
TAXES AND INSURANCE	.36	.39	.43
CAPITAL REPLACEMENT	2.70	2.88	3.03
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.01	.85	.69
OTHER NONLAND CAPITAL	1.10	1.19	1.22
LAND	.16	.15	.15
UNPAID LABOR	1.70	1.83	1.98
TOTAL, ECONOMIC COSTS	51.01	53.38	54.89
RESIDUAL TO MANAGEMENT AND RISK	-7.46	1.31	-8.42
NET RETURNS TO OWNED INPUTS	-3.49	5.33	-4.38

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 92--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, 650 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	44.14	54.84	47.24
TOTAL	44.14	54.84	47.24
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.4 lbs)	17.40	21.89	20.10
FEED--			
GRAIN (242.0 lbs)	12.61	10.22	12.99
PROTEIN SUPPLEMENTS (44.7 lbs)	7.04	6.53	6.99
OTHER--			
VETERINARY AND MEDICINE	.38	.40	.41
LIVESTOCK HAULING	.08	.08	.09
MARKETING	.36	.40	.37
BEDDING (14.0 lbs)	.16	.14	.14
FUEL, LUBE, AND ELECTRICITY	1.67	1.66	1.52
MACHINERY AND BUILDING REPAIRS	1.33	1.44	1.52
HIRED LABOR (.07 hr)	.31	.33	.36
MANURE CREDIT	-.15	-.15	-.14
TOTAL, VARIABLE EXPENSES	41.19	42.94	44.35
GENERAL FARM OVERHEAD	1.20	1.32	1.36
TAXES AND INSURANCE	.30	.32	.35
INTEREST	4.58	4.78	4.20
TOTAL, FIXED EXPENSES	6.08	6.42	5.91
TOTAL, CASH EXPENSES	47.27	49.36	50.26
RECEIPTS LESS CASH EXPENSES	-3.13	5.48	-3.02
CAPITAL REPLACEMENT	2.21	2.36	2.49
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.34	3.12	-5.51
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ECONOMIC COSTS:			
VARIABLE EXPENSES	41.19	42.94	44.35
GENERAL FARM OVERHEAD	1.20	1.32	1.36
TAXES AND INSURANCE	.30	.32	.35
CAPITAL REPLACEMENT	2.21	2.36	2.49
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.98	.82	.66
OTHER NONLAND CAPITAL	.89	.96	1.01
LAND	.05	.04	.04
UNPAID LABOR	1.38	1.49	1.61
TOTAL, ECONOMIC COSTS	48.20	50.25	51.87
RESIDUAL TO MANAGEMENT AND RISK	-4.06	4.59	-4.63
NET RETURNS TO OWNED INPUTS	-.76	7.90	-1.31

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 93--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT,
1,600 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	44.18	54.85	47.28
TOTAL	44.18	54.85	47.28
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.5 lbs)	17.42	22.00	20.15
FEED--			
GRAIN (240.8 lbs)	12.58	10.19	12.96
PROTEIN SUPPLEMENTS (44.9 lbs)	6.96	6.46	6.91
OTHER--			
VETERINARY AND MEDICINE	.40	.42	.43
LIVESTOCK HAULING	.17	.18	.18
MARKETING	.36	.39	.36
BEDDING (6.0 lbs)	.09	.08	.08
FUEL, LUBE, AND ELECTRICITY	1.36	1.37	1.28
MACHINERY AND BUILDING REPAIRS	1.55	1.63	1.71
HIRED LABOR (.08 hr)	.47	.50	.54
MANURE CREDIT	-.15	-.15	-.14
TOTAL, VARIABLE EXPENSES	41.21	43.07	44.46
GENERAL FARM OVERHEAD	.60	.66	.68
TAXES AND INSURANCE	.38	.42	.46
INTEREST	4.56	4.76	4.18
TOTAL, FIXED EXPENSES	5.54	5.84	5.32
TOTAL, CASH EXPENSES	46.75	48.91	49.78
RECEIPTS LESS CASH EXPENSES	-2.57	5.94	-2.50
CAPITAL REPLACEMENT	3.16	3.30	3.44
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-5.73	2.64	-5.94
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ECONOMIC COSTS:			
VARIABLE EXPENSES	41.21	43.07	44.46
GENERAL FARM OVERHEAD	.60	.66	.68
TAXES AND INSURANCE	.38	.42	.46
CAPITAL REPLACEMENT	3.16	3.30	3.44
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.97	.81	.66
OTHER NONLAND CAPITAL	1.28	1.36	1.38
LAND	.04	.04	.03
UNPAID LABOR	.96	1.03	1.12
TOTAL, ECONOMIC COSTS	48.60	50.69	52.23
RESIDUAL TO MANAGEMENT AND RISK	-4.42	4.16	-4.95
NET RETURNS TO OWNED INPUTS	-1.17	7.40	-1.76

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 94--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT,
3,000 HEAD, 1981-83

ITEM	1981	1982	1983
			<u>DOLLARS</u>
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	44.21	54.90	47.26
TOTAL	44.21	54.90	47.26
			=====
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.8 lbs)	17.42	22.22	20.35
FEED--			
GRAIN (235.8 lbs)	12.42	10.07	12.82
PROTEIN SUPPLEMENTS (47.6 lbs)	6.41	5.99	6.37
OTHER--			
VETERINARY AND MEDICINE	.29	.30	.31
LIVESTOCK HAULING	.15	.16	.17
MARKETING	.35	.38	.35
BEDDING (4.0 lbs)	.06	.05	.05
FUEL, LUBE, AND ELECTRICITY	1.12	1.13	1.06
MACHINERY AND BUILDING REPAIRS	1.41	1.49	1.57
HIRED LABOR (.04 hr)	.32	.34	.36
MANURE CREDIT	-.14	-.14	-.13
TOTAL, VARIABLE EXPENSES	39.81	41.99	43.28
GENERAL FARM OVERHEAD	.39	.43	.44
TAXES AND INSURANCE	.33	.36	.40
INTEREST	4.54	4.74	4.16
TOTAL, FIXED EXPENSES	5.26	5.53	5.00
TOTAL, CASH EXPENSES	45.07	47.52	48.28
RECEIPTS LESS CASH EXPENSES	-.86	7.38	-1.02
CAPITAL REPLACEMENT	2.56	2.67	2.79
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-3.42	4.71	-3.81
			=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	39.81	41.99	43.28
GENERAL FARM OVERHEAD	.39	.43	.44
TAXES AND INSURANCE	.33	.36	.40
CAPITAL REPLACEMENT	2.56	2.67	2.79
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.94	.79	.64
OTHER NONLAND CAPITAL	1.09	1.16	1.17
LAND	.03	.03	.02
UNPAID LABOR	.97	1.04	1.13
TOTAL, ECONOMIC COSTS	46.12	48.47	49.87
RESIDUAL TO MANAGEMENT AND RISK	-1.91	6.43	-2.61
NET RETURNS TO OWNED INPUTS	1.12	9.45	.35

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 95--U.S. FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT,
10,000 HEAD, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	44.25	54.97	47.23
TOTAL	44.25	54.97	47.23
CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (23.1 lbs)	17.43	22.52	20.60
FEED--			
GRAIN (232.1 lbs)	12.35	10.02	12.78
PROTEIN SUPPLEMENTS (45.9 lbs)	6.06	5.64	6.01
OTHER--			
VETERINARY AND MEDICINE	.43	.45	.47
LIVESTOCK HAULING	.12	.13	.14
MARKETING	.19	.21	.20
BEDDING (2.0 lbs)	.03	.03	.03
FUEL, LUBE, AND ELECTRICITY	.82	.90	.78
MACHINERY AND BUILDING REPAIRS	1.27	1.38	1.40
HIRED LABOR (.08 hr)	.57	.61	.65
MANURE CREDIT	-.26	-.26	-.24
TOTAL, VARIABLE EXPENSES	39.01	41.63	42.82
GENERAL FARM OVERHEAD	.24	.26	.27
TAXES AND INSURANCE	.32	.36	.38
INTEREST	4.51	4.71	4.13
TOTAL, FIXED EXPENSES	5.07	5.33	4.78
TOTAL, CASH EXPENSES	44.08	46.96	47.60
RECEIPTS LESS CASH EXPENSES	.17	8.01	-.37
CAPITAL REPLACEMENT	2.41	2.55	2.59
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-2.24	5.46	-2.96
ECONOMIC COSTS:			
VARIABLE EXPENSES	39.01	41.63	42.82
GENERAL FARM OVERHEAD	.24	.26	.27
TAXES AND INSURANCE	.32	.36	.38
CAPITAL REPLACEMENT	2.41	2.55	2.59
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.91	.78	.63
OTHER NONLAND CAPITAL	1.00	1.07	1.07
LAND	.01	.01	.01
UNPAID LABOR	.61	.65	.71
TOTAL, ECONOMIC COSTS	44.51	47.31	48.48
RESIDUAL TO MANAGEMENT AND RISK	-.26	7.66	-1.25
NET RETURNS TO OWNED INPUTS	2.27	10.17	1.17

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 96—FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, ALL SIZES,
NORTH-CENTRAL, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) 1/	43.77	54.40	47.40
TOTAL	43.77	54.40	47.40
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (22.1 lbs)	17.55	21.94	19.67
FEED--			
GRAIN (240.2 lbs)	12.40	10.04	12.74
PROTEIN SUPPLEMENTS (45.2 lbs)	6.88	6.39	6.84
OTHER--			
VETERINARY AND MEDICINE	.44	.46	.47
LIVESTOCK HAULING	.16	.17	.17
MARKETING	.40	.43	.40
BEDDING (10.0 lbs)	.13	.11	.11
FUEL, LUBE, AND ELECTRICITY	1.53	1.52	1.38
MACHINERY AND BUILDING REPAIRS	1.51	1.61	1.68
HIRED LABOR (.07 hr)	.38	.41	.45
MANURE CREDIT	-.18	-.18	-.17
TOTAL, VARIABLE EXPENSES	41.20	42.90	43.74
GENERAL FARM OVERHEAD	1.03	1.13	1.17
TAXES AND INSURANCE	.35	.39	.42
INTEREST	4.51	4.71	4.13
TOTAL, FIXED EXPENSES	5.89	6.23	5.72
TOTAL, CASH EXPENSES	47.09	49.13	49.46
RECEIPTS LESS CASH EXPENSES	-3.32	5.27	-2.06
CAPITAL REPLACEMENT	2.75	2.90	3.01
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.07	2.37	-5.07
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ECONOMIC COSTS:			
VARIABLE EXPENSES	41.20	42.90	43.74
GENERAL FARM OVERHEAD	1.03	1.13	1.17
TAXES AND INSURANCE	.35	.39	.42
CAPITAL REPLACEMENT	2.75	2.90	3.01
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.98	.82	.66
OTHER NONLAND CAPITAL	1.15	1.23	1.25
LAND	.08	.07	.06
UNPAID LABOR	1.45	1.52	1.64
TOTAL, ECONOMIC COSTS	48.99	50.96	51.95
RESIDUAL TO MANAGEMENT AND RISK	-5.22	3.44	-4.55
NET RETURNS TO OWNED INPUTS	-1.56	7.08	-.94

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 97--FEEDER PIG FINISHING PRODUCTION COSTS, PER CWT, ALL SIZES,
SOUTHEAST, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (100 lbs) <u>1/</u>	44.33	55.23	46.98
TOTAL	44.33	55.23	46.98
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CASH EXPENSES:			
FEEDERS--			
FEEDER PIGS (25.7 lbs)	17.51	25.09	22.22
FEED--			
GRAIN (237.7 lbs)	13.64	11.08	14.30
PROTEIN SUPPLEMENTS (45.4 lbs)	6.96	6.34	6.67
PASTURE (.007 ac)	.17	.16	.13
OTHER--			
VETERINARY AND MEDICINE	.37	.38	.40
LIVESTOCK HAULING	.05	.06	.06
MARKETING	.35	.37	.35
BEDDING (2.0 lbs)	.03	.03	.02
CUSTOM FEED MIXING	.66	.62	.58
FUEL, LUBE, AND ELECTRICITY	1.36	1.38	1.33
MACHINERY AND BUILDING REPAIRS	1.42	1.51	1.59
HIRED LABOR (.08 hr)	.39	.43	.46
TOTAL, VARIABLE EXPENSES	42.91	47.45	48.11
GENERAL FARM OVERHEAD	.91	1.00	1.03
TAXES AND INSURANCE	.38	.41	.44
INTEREST	4.19	4.37	3.84
TOTAL, FIXED EXPENSES	5.48	5.78	5.31
TOTAL, CASH EXPENSES	48.39	53.23	53.42
RECEIPTS LESS CASH EXPENSES	-4.06	2.00	-6.44
CAPITAL REPLACEMENT	2.91	3.06	3.18
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-6.97	-1.06	-9.62
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ECONOMIC COSTS:			
VARIABLE EXPENSES	42.91	47.45	48.11
GENERAL FARM OVERHEAD	.91	1.00	1.03
TAXES AND INSURANCE	.38	.41	.44
CAPITAL REPLACEMENT	2.91	3.06	3.18
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.02	.90	.72
OTHER NONLAND CAPITAL	1.11	1.19	1.21
LAND	.32	.29	.27
UNPAID LABOR	1.51	1.54	1.53
TOTAL, ECONOMIC COSTS	51.07	55.84	56.49
RESIDUAL TO MANAGEMENT AND RISK	-6.74	-.61	-9.51
NET RETURNS TO OWNED INPUTS	-2.78	3.31	-5.78

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 98--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.38 lbs) 1/	41.67	51.70	44.66
CULL SOWS (5.62 lbs)	2.20	2.77	2.26
TOTAL	43.87	54.47	46.92
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CASH EXPENSES:			
FEED--			
GRAIN (349.7 lbs)	18.32	14.83	18.85
PROTEIN SUPPLEMENTS (81.2 lbs)	12.27	11.40	12.19
PASTURE (.009 ac)	.05	.05	.04
OTHER--			
VETERINARY AND MEDICINE	.50	.51	.53
LIVESTOCK HAULING	.12	.12	.13
MARKETING	.33	.36	.33
BEDDING (14.0 lbs)	.18	.15	.15
FUEL, LUBE, AND ELECTRICITY	2.06	2.06	1.96
MACHINERY AND BUILDING REPAIRS	2.25	2.35	2.45
HIRED LABOR (.18 hr)	.99	1.12	1.23
MANURE CREDIT	-.20	-.20	-.19
TOTAL, VARIABLE EXPENSES	36.87	32.75	37.67
GENERAL FARM OVERHEAD	1.42	1.56	1.61
TAXES AND INSURANCE	.67	.69	.78
INTEREST	7.42	7.90	7.20
TOTAL, FIXED EXPENSES	9.51	10.15	9.59
TOTAL, CASH EXPENSES	46.38	42.90	47.26
RECEIPTS LESS CASH EXPENSES	-2.51	11.57	-.34
CAPITAL REPLACEMENT	5.59	5.81	6.19
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.10	5.76	-6.53
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ECONOMIC COSTS:			
VARIABLE EXPENSES	36.87	32.75	37.67
GENERAL FARM OVERHEAD	1.42	1.56	1.61
TAXES AND INSURANCE	.67	.69	.78
CAPITAL REPLACEMENT	5.59	5.81	6.19
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.44	1.05	.93
OTHER NONLAND CAPITAL	2.30	2.41	2.52
LAND	.49	.43	.36
UNPAID LABOR	4.90	5.13	5.47
TOTAL, ECONOMIC COSTS	53.68	49.83	55.53
RESIDUAL TO MANAGEMENT AND RISK	-9.81	4.64	-8.61
NET RETURNS TO OWNED INPUTS	-.68	13.66	.67

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 99--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 140 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.69 lbs) 1/	41.51	51.73	44.43
CULL SOWS (5.31 lbs)	2.08	2.61	2.13
TOTAL	43.59	54.34	46.56
CASH EXPENSES:			
FEED--			
GRAIN (355.3 lbs)	18.72	15.17	19.32
PROTEIN SUPPLEMENTS (80.6 lbs)	12.84	11.87	12.69
PASTURE (.028 ac)	.15	.16	.14
OTHER--			
VETERINARY AND MEDICINE	.52	.55	.57
LIVESTOCK HAULING	.14	.15	.15
MARKETING	.47	.51	.48
BEDDING (18.0 lbs)	.20	.17	.18
FUEL, LUBE, AND ELECTRICITY	2.46	2.49	2.32
MACHINERY AND BUILDING REPAIRS	2.59	2.73	2.86
Hired LABOR (.11 hr)	.42	.46	.48
MANURE CREDIT	-.18	-.18	-.17
TOTAL, VARIABLE EXPENSES	38.33	34.08	39.02
GENERAL FARM OVERHEAD	2.73	3.00	3.10
TAXES AND INSURANCE	.80	.86	.93
INTEREST	7.40	7.88	7.18
TOTAL, FIXED EXPENSES	10.93	11.74	11.21
TOTAL, CASH EXPENSES	49.26	45.82	50.23
RECEIPTS LESS CASH EXPENSES	-5.67	8.52	-3.67
CAPITAL REPLACEMENT	6.51	6.87	7.30
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-12.18	1.65	-10.97
ECONOMIC COSTS:			
VARIABLE EXPENSES	38.33	34.08	39.02
GENERAL FARM OVERHEAD	2.73	3.00	3.10
TAXES AND INSURANCE	.80	.86	.93
CAPITAL REPLACEMENT	6.51	6.87	7.30
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.63	1.21	1.07
OTHER NONLAND CAPITAL	2.71	2.88	3.01
LAND	1.25	1.19	1.05
UNPAID LABOR	8.93	9.60	10.39
TOTAL, ECONOMIC COSTS	62.89	59.69	65.87
RESIDUAL TO MANAGEMENT AND RISK	-19.30	-5.35	-19.31
NET RETURNS TO OWNED INPUTS	-4.78	9.53	-3.79

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 100--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 300 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.05 lbs) 1/	41.65	51.39	44.82
CULL SOWS (5.95 lbs)	2.33	2.94	2.39
TOTAL	43.98	54.33	47.21
CASH EXPENSES:			
FEED--			
GRAIN (353.7 lbs)	18.45	14.95	19.00
PROTEIN SUPPLEMENTS (80.4 lbs)	12.80	11.86	12.70
PASTURE (.016 ac)	.08	.08	.07
OTHER--			
VETERINARY AND MEDICINE	.60	.63	.65
LIVESTOCK HAULING	.17	.19	.19
MARKETING	.35	.39	.36
BEDDING (22.0 lbs)	.25	.22	.22
FUEL, LUBE, AND ELECTRICITY	2.02	2.02	1.89
MACHINERY AND BUILDING REPAIRS	2.34	2.46	2.57
HIRED LABOR (.09 hr)	.38	.41	.45
MANURE CREDIT	-.19	-.19	-.18
TOTAL, VARIABLE EXPENSES	37.25	33.02	37.92
GENERAL FARM OVERHEAD	2.22	2.44	2.52
TAXES AND INSURANCE	.70	.75	.81
INTEREST	7.40	7.88	7.18
TOTAL, FIXED EXPENSES	10.32	11.07	10.51
TOTAL, CASH EXPENSES	47.57	44.09	48.43
RECEIPTS LESS CASH EXPENSES	-3.59	10.24	-1.22
CAPITAL REPLACEMENT	6.32	6.64	7.10
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-9.91	3.60	-8.32
ECONOMIC COSTS:			
VARIABLE EXPENSES	37.25	33.02	37.92
GENERAL FARM OVERHEAD	2.22	2.44	2.52
TAXES AND INSURANCE	.70	.75	.81
CAPITAL REPLACEMENT	6.32	6.64	7.10
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.50	1.10	.98
OTHER NONLAND CAPITAL	2.47	2.62	2.74
LAND	.76	.72	.62
UNPAID LABOR	6.27	6.75	7.32
TOTAL, ECONOMIC COSTS	57.49	54.04	60.01
RESIDUAL TO MANAGEMENT AND RISK	-13.51	.29	-12.80
NET RETURNS TO OWNED INPUTS	-2.51	11.48	-1.14

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 101--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 650 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.24 lbs) 1/	41.62	51.67	44.56
CULL SOWS (5.76 lbs)	2.26	2.84	2.32
TOTAL	43.88	54.51	46.88
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CASH EXPENSES:			
FEED--			
GRAIN (353.2 lbs)	18.38	14.89	18.93
PROTEIN SUPPLEMENTS (80.7 lbs)	12.66	11.75	12.80
PASTURE (.009 ac)	.05	.05	.04
OTHER--			
VETERINARY AND MEDICINE	.66	.69	.72
LIVESTOCK HAULING	.11	.12	.12
MARKETING	.35	.38	.35
BEDDING (18.0 lbs)	.22	.19	.19
FUEL, LUBE, AND ELECTRICITY	2.35	2.35	2.23
MACHINERY AND BUILDING REPAIRS	2.20	2.33	2.44
HIRED LABOR (.12 hr)	.49	.53	.57
MANURE CREDIT	-.20	-.20	-.19
TOTAL, VARIABLE EXPENSES	37.27	33.08	38.20
GENERAL FARM OVERHEAD	1.48	1.63	1.68
TAXES AND INSURANCE	.63	.66	.73
INTEREST	7.42	7.90	7.20
TOTAL, FIXED EXPENSES	9.53	10.19	9.61
TOTAL, CASH EXPENSES	46.80	43.27	47.81
RECEIPTS LESS CASH EXPENSES	-2.92	11.24	-.93
CAPITAL REPLACEMENT	5.46	5.77	6.20
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-8.38	5.47	-7.13
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ECONOMIC COSTS:			
VARIABLE EXPENSES	37.27	33.08	38.20
GENERAL FARM OVERHEAD	1.48	1.63	1.68
TAXES AND INSURANCE	.63	.66	.73
CAPITAL REPLACEMENT	5.46	5.77	6.20
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.42	1.03	.93
OTHER NONLAND CAPITAL	2.14	2.29	2.41
LAND	.50	.47	.40
UNPAID LABOR	4.02	4.32	4.69
TOTAL, ECONOMIC COSTS	52.92	49.25	55.24
RESIDUAL TO MANAGEMENT AND RISK	-9.04	5.26	-8.36
NET RETURNS TO OWNED INPUTS	-.96	13.37	.07

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 102--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 1,600 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.41 lbs) 1/	41.70	51.77	44.64
CULL SOWS (5.59 lbs)	1.80	2.76	2.25
TOTAL	43.50	54.53	46.89
CASH EXPENSES:			
FEED--			
GRAIN (345.8 lbs)	18.03	14.61	18.57
PROTEIN SUPPLEMENTS (84.9 lbs)	12.39	11.74	12.43
PASTURE (.001 ac)	.01	.01	.01
OTHER--			
VETERINARY AND MEDICINE	.27	.28	.29
LIVESTOCK HAULING	.08	.09	.09
MARKETING	.32	.35	.33
BEDDING (12.0 lbs)	.16	.14	.14
FUEL, LUBE, AND ELECTRICITY	1.81	1.82	1.75
MACHINERY AND BUILDING REPAIRS	2.28	2.37	2.47
HIRED LABOR (.23 hr)	1.27	1.36	1.47
MANURE CREDIT	-.20	-.20	-.18
TOTAL, VARIABLE EXPENSES	36.42	32.57	37.37
GENERAL FARM OVERHEAD	.75	.82	.85
TAXES AND INSURANCE	.69	.73	.80
INTEREST	7.43	7.91	7.21
TOTAL, FIXED EXPENSES	8.87	9.46	8.86
TOTAL, CASH EXPENSES	45.29	42.03	46.23
RECEIPTS LESS CASH EXPENSES	-1.79	12.50	.66
CAPITAL REPLACEMENT	5.44	5.64	6.00
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-7.23	6.86	-5.34
ECONOMIC COSTS:			
VARIABLE EXPENSES	36.42	32.57	37.37
GENERAL FARM OVERHEAD	.75	.82	.85
TAXES AND INSURANCE	.69	.73	.80
CAPITAL REPLACEMENT	5.44	5.64	6.00
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.39	1.02	.91
OTHER NONLAND CAPITAL	2.36	2.48	2.58
LAND	.06	.07	.05
UNPAID LABOR	3.96	4.25	4.62
TOTAL, ECONOMIC COSTS	51.07	47.58	53.18
RESIDUAL TO MANAGEMENT AND RISK	-7.57	6.95	-6.29
NET RETURNS TO OWNED INPUTS	.20	14.77	1.87

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 103--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 3,000 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.64 lbs) 1/	41.83	51.95	44.73
CULL SOWS (5.36 lbs)	2.10	2.64	2.15
TOTAL	43.93	54.59	46.88
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CASH EXPENSES:			
FEED--			
GRAIN (348.1 lbs)	18.28	14.81	18.86
PROTEIN SUPPLEMENTS (79.9 lbs)	11.03	10.24	10.96
OTHER--			
VETERINARY AND MEDICINE	.33	.34	.36
LIVESTOCK HAULING	.06	.06	.06
MARKETING	.19	.21	.20
BEDDING (4.0 lbs)	.05	.05	.05
FUEL, LUBE, AND ELECTRICITY	1.70	1.75	1.73
MACHINERY AND BUILDING REPAIRS	2.09	2.19	2.29
HIRED LABOR (.23 hr)	1.66	1.78	1.90
MANURE CREDIT	-.18	-.18	-.17
TOTAL, VARIABLE EXPENSES	35.21	31.25	36.24
GENERAL FARM OVERHEAD	.50	.55	.57
TAXES AND INSURANCE	.59	.60	.68
INTEREST	7.44	7.92	7.22
TOTAL, FIXED EXPENSES	8.53	9.07	8.47
TOTAL, CASH EXPENSES	43.74	40.32	44.71
RECEIPTS LESS CASH EXPENSES	.19	14.27	2.17
CAPITAL REPLACEMENT	4.59	4.78	5.08
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-4.40	9.49	-2.91
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ECONOMIC COSTS:			
VARIABLE EXPENSES	35.21	31.25	36.24
GENERAL FARM OVERHEAD	.50	.55	.57
TAXES AND INSURANCE	.59	.60	.68
CAPITAL REPLACEMENT	4.59	4.78	5.08
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.33	.96	.87
OTHER NONLAND CAPITAL	1.97	2.09	2.18
LAND	.05	.05	.04
UNPAID LABOR	3.21	3.45	3.73
TOTAL, ECONOMIC COSTS	47.45	43.73	49.39
RESIDUAL TO MANAGEMENT AND RISK	-3.52	10.86	-2.51
NET RETURNS TO OWNED INPUTS	3.04	17.41	4.31

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 104--U.S. FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, 10,000 HEAD,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.67 lbs) <u>1/</u>	41.88	52.02	44.72
CULL SOWS (5.33 lbs)	2.08	2.62	2.14
TOTAL	43.96	54.64	46.86
CASH EXPENSES:			
FEED--			
GRAIN (336.5 lbs)	17.84	14.46	18.43
PROTEIN SUPPLEMENTS (77.8 lbs)	10.31	9.57	10.25
OTHER--			
VETERINARY AND MEDICINE	.58	.60	.62
LIVESTOCK HAULING	.11	.12	.12
MARKETING	.19	.21	.20
BEDDING (2.0 lbs)	.04	.03	.04
FUEL, LUBE, AND ELECTRICITY	1.86	1.90	1.92
MACHINERY AND BUILDING REPAIRS	1.67	1.74	1.81
HIRED LABOR (.46 hr)	3.44	3.70	3.98
MANURE CREDIT	-.35	-.35	-.33
TOTAL, VARIABLE EXPENSES	35.69	31.98	37.04
GENERAL FARM OVERHEAD	.40	.44	.45
TAXES AND INSURANCE	.52	.56	.61
INTEREST	7.44	7.92	7.22
TOTAL, FIXED EXPENSES	8.36	8.92	8.28
TOTAL, CASH EXPENSES	44.05	40.90	45.32
RECEIPTS LESS CASH EXPENSES	-.09	13.74	1.54
CAPITAL REPLACEMENT	4.13	4.29	4.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-4.22	9.45	-3.07
ECONOMIC COSTS:			
VARIABLE EXPENSES	35.69	31.98	37.04
GENERAL FARM OVERHEAD	.40	.44	.45
TAXES AND INSURANCE	.52	.56	.61
CAPITAL REPLACEMENT	4.13	4.29	4.61
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.27	.91	.83
OTHER NONLAND CAPITAL	1.77	1.86	1.95
LAND	.02	.02	.02
UNPAID LABOR	.97	1.04	1.12
TOTAL, ECONOMIC COSTS	44.77	41.10	46.63
RESIDUAL TO MANAGEMENT AND RISK	-.81	13.54	.23
NET RETURNS TO OWNED INPUTS	3.22	17.37	4.15

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 105--FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES,
NORTH-CENTRAL, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (94.18 lbs) 1/	41.52	51.50	44.59
CULL SOWS (5.82 lbs)	2.29	2.88	2.34
TOTAL	43.81	54.38	46.93
CASH EXPENSES:			
FEED--			
GRAIN (349.8 lbs)	18.08	14.63	18.56
PROTEIN SUPPLEMENTS (81.0 lbs)	12.21	11.38	12.20
PASTURE (.007 ac)	.03	.03	.03
OTHER--			
VETERINARY AND MEDICINE	.49	.51	.53
LIVESTOCK HAULING	.13	.14	.14
MARKETING	.32	.35	.32
BEDDING (16.0 lbs)	.19	.16	.16
FUEL, LUBE, AND ELECTRICITY	2.04	2.02	1.92
MACHINERY AND BUILDING REPAIRS	2.29	2.39	2.49
HIRED LABOR (.15 hr)	.87	.97	1.08
MANURE CREDIT	-.23	-.23	-.22
TOTAL, VARIABLE EXPENSES	36.42	32.35	37.21
GENERAL FARM OVERHEAD	1.42	1.56	1.61
TAXES AND INSURANCE	.68	.72	.77
INTEREST	7.41	7.89	7.19
TOTAL, FIXED EXPENSES	9.51	10.17	9.57
TOTAL, CASH EXPENSES	45.93	42.52	46.78
RECEIPTS LESS CASH EXPENSES	-2.12	11.86	.15
CAPITAL REPLACEMENT	5.75	5.97	6.35
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-7.87	5.89	-6.20
ECONOMIC COSTS:			
VARIABLE EXPENSES	36.42	32.35	37.21
GENERAL FARM OVERHEAD	1.42	1.56	1.61
TAXES AND INSURANCE	.68	.72	.77
CAPITAL REPLACEMENT	5.75	5.97	6.35
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.43	1.04	.93
OTHER NONLAND CAPITAL	2.35	2.45	2.57
LAND	.47	.42	.34
UNPAID LABOR	5.01	5.26	5.65
TOTAL, ECONOMIC COSTS	53.53	49.77	55.43
RESIDUAL TO MANAGEMENT AND RISK	-9.72	4.61	-8.50
NET RETURNS TO OWNED INPUTS	-.46	13.78	.99

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 106--FARROW-TO-FINISH PRODUCTION COSTS, PER CWT, ALL SIZES,
SOUTHEAST, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MARKET HOGS (95.86 lbs) <u>1/</u>	42.76	53.17	45.18
CULL SOWS (4.14 lbs)	1.62	2.01	1.62
TOTAL	44.38	55.18	46.80
CASH EXPENSES:			
FEED--			
GRAIN (348.3 lbs)	20.01	16.25	20.96
PROTEIN SUPPLEMENTS (83.3 lbs)	12.70	11.56	12.12
PASTURE (.019 ac)	.18	.17	.14
OTHER--			
VETERINARY AND MEDICINE	.53	.56	.59
LIVESTOCK HAULING	.02	.02	.02
MARKETING	.37	.39	.36
BEDDING (6.0 lbs)	.07	.06	.05
FUEL, LUBE, AND ELECTRICITY	2.16	2.24	2.20
MACHINERY AND BUILDING REPAIRS	1.95	2.04	2.12
HIRED LABOR (.39 hr)	1.90	2.14	2.25
TOTAL, VARIABLE EXPENSES	39.89	35.43	40.81
GENERAL FARM OVERHEAD	1.39	1.53	1.58
TAXES AND INSURANCE	.62	.65	.73
INTEREST	7.51	8.00	7.29
TOTAL, FIXED EXPENSES	9.52	10.18	9.60
TOTAL, CASH EXPENSES	49.41	45.61	50.41
RECEIPTS LESS CASH EXPENSES	-5.03	9.57	-3.61
CAPITAL REPLACEMENT	4.51	4.72	5.04
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	-9.54	4.85	-8.65
ECONOMIC COSTS:			
VARIABLE EXPENSES	39.89	35.43	40.81
GENERAL FARM OVERHEAD	1.39	1.53	1.58
TAXES AND INSURANCE	.62	.65	.73
CAPITAL REPLACEMENT	4.51	4.72	5.04
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	1.52	1.10	.98
OTHER NONLAND CAPITAL	1.96	2.08	2.19
LAND	.61	.55	.51
UNPAID LABOR	4.07	4.23	4.26
TOTAL, ECONOMIC COSTS	54.57	50.29	56.10
RESIDUAL TO MANAGEMENT AND RISK	-10.19	4.89	-9.30
NET RETURNS TO OWNED INPUTS	-2.03	12.85	-1.36

1/ QUANTITIES PER CWT, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 107--U.S. SHEEP PRODUCTION COSTS, PER EWE, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
SLAUGHTER LAMBS (.317 cwt) <u>1/</u>	16.03	16.60	16.39
FEEDER LAMBS (.266 cwt)	13.30	13.49	12.30
CULL EWES (.292 cwt)	3.43	3.05	2.17
WOOL (7.42 lbs)	7.45	6.28	6.72
WOOL PAYMENT	4.61	6.28	7.75
UNSHORN LAMB PAYMENT	.88	1.50	1.56
TOTAL	45.70	47.20	46.89
CASH EXPENSES:			
FEED--			
GRAIN (.741 bu)	2.13	2.14	2.38
PROTEIN SUPPLEMENTS (.019 ton)	3.38	3.16	3.60
SALT AND MINERALS (.070 cwt)	.35	.37	.38
HAY (.103 ton)	3.53	3.71	3.65
PASTURE (.389 AUM)	3.19	3.11	3.16
PRIVATE RANGE (1.428 AUM)	0	0	0
PUBLIC GRAZING (.461 AUM)	1.06	.86	.65
PUBLIC GRAZING (.027 AUM)	.05	.05	.05
CROP RESIDUE (.141 AUM)	.06	.05	.06
OTHER--			
VETERINARY AND MEDICINE	.91	.98	.99
LIVESTOCK HAULING	1.12	1.18	1.20
MARKETING	.24	.26	.27
RAM DEATH LOSS	.31	.29	.28
SHEARING AND TAGGING	1.14	1.18	1.21
FUEL, LUBE, AND ELECTRICITY	1.98	1.93	1.82
MACHINERY AND BUILDING REPAIRS	1.74	2.19	2.29
Hired LABOR (1.405 hrs)	5.83	6.05	6.22
MISCELLANEOUS	.96	1.02	1.04
TOTAL, VARIABLE EXPENSES	27.98	28.53	29.25
GENERAL FARM OVERHEAD	1.12	1.23	1.27
TAXES AND INSURANCE	1.57	1.80	1.84
INTEREST	9.94	10.58	9.64
TOTAL, FIXED EXPENSES	12.63	13.61	12.75
TOTAL, CASH EXPENSES	40.61	42.14	42.00
RECEIPTS LESS CASH EXPENSES	5.09	5.06	4.89
CAPITAL REPLACEMENT	1.48	1.71	1.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.61	3.35	3.07
ECONOMIC COSTS:			
VARIABLE EXPENSES	27.98	28.53	29.25
GENERAL FARM OVERHEAD	1.12	1.23	1.27
TAXES AND INSURANCE	1.57	1.80	1.84
CAPITAL REPLACEMENT	1.48	1.71	1.82
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	2.44	1.84	1.46
OTHER NONLAND CAPITAL	4.11	4.52	3.95
LAND	10.60	11.54	11.90
UNPAID LABOR (1.873 hrs)	6.97	7.14	7.33
TOTAL, ECONOMIC COSTS	56.27	58.31	58.82
RESIDUAL TO MANAGEMENT AND RISK	-10.57	-11.11	-11.93
NET RETURNS TO OWNED INPUTS	13.55	13.93	12.71

1/ QUANTITIES PER EWE, IN PARENTHESES, ARE FOR THE LATEST YEAR AND WILL VARY FOR EARLIER YEARS.

TABLE 108--U.S. MILK PRODUCTION COSTS, PER COW, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	1,864.44	1,861.17	1,914.11
CULL COWS, CALVES, AND REPLACEMENTS	170.24	155.98	152.57
TOTAL	2,034.68	2,017.15	2,066.68
CASH EXPENSES:			
FEED--			
SILAGE	44.94	45.03	51.46
CONCENTRATES	469.86	451.73	477.97
HAY	108.95	119.08	122.33
PASTURE AND OTHER FORAGES	5.45	5.61	5.36
HAYLAGE	31.32	29.48	31.44
OTHER--			
MILK HAULING	47.67	49.27	48.33
ARTIFICIAL INSEMINATION	14.98	16.10	16.85
VETERINARY AND MEDICINE	27.24	28.10	29.27
LIVESTOCK HAULING	2.72	2.82	2.77
MARKETING	13.62	14.61	14.94
FUEL, LUBE, AND ELECTRICITY	54.47	54.51	52.73
MACHINERY AND BUILDING REPAIRS	47.67	51.21	53.87
HIRED LABOR	113.04	119.16	120.31
DHIA FEES	6.81	7.10	7.43
DAIRY SUPPLIES	25.88	25.74	26.58
DAIRY ASSESSMENT	0	0	67.59
TOTAL, VARIABLE EXPENSES	1,014.62	1,019.55	1,129.23
GENERAL FARM OVERHEAD	66.73	78.53	80.82
TAXES AND INSURANCE	50.39	48.17	50.69
INTEREST	194.75	213.32	223.20
TOTAL, FIXED EXPENSES	311.87	340.02	354.71
TOTAL, CASH EXPENSES	1,326.49	1,359.57	1,483.94
RECEIPTS LESS CASH EXPENSES	708.19	657.58	582.74
CAPITAL REPLACEMENT	223.35	216.07	222.47
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	484.84	441.51	360.27
ECONOMIC COSTS:			
VARIABLE EXPENSES	1,014.62	1,019.55	1,129.23
GENERAL FARM OVERHEAD	66.73	78.53	80.82
TAXES AND INSURANCE	50.39	48.17	50.69
CAPITAL REPLACEMENT	223.35	216.07	222.47
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	20.43	16.82	14.36
OTHER NONLAND CAPITAL	149.81	143.13	133.77
LAND	50.39	49.54	50.69
UNPAID LABOR	198.84	207.98	205.67
TOTAL, ECONOMIC COSTS	1,774.56	1,779.79	1,887.70
RESIDUAL TO MANAGEMENT AND RISK	260.12	237.36	178.98
NET RETURNS TO OWNED INPUTS	679.59	654.83	583.47

TABLE 109--U.S. MILK PRODUCTION COSTS, PER CWT, ALL SIZES, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	13.69	13.52	13.60
CULL COWS, CALVES, AND REPLACEMENTS	1.25	1.14	1.08
TOTAL	14.94	14.66	14.68
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CASH EXPENSES:			
FEED--			
SILAGE	.33	.33	.37
CONCENTRATES	3.45	3.28	3.40
HAY	.80	.86	.87
PASTURE AND OTHER FORAGES	.04	.04	.04
HAYLAGE	.23	.21	.22
OTHER--			
MILK HAULING	.35	.34	.34
ARTIFICIAL INSEMINATION	.11	.12	.12
VETERINARY AND MEDICINE	.20	.20	.21
LIVESTOCK HAULING	.02	.02	.02
MARKETING	.10	.11	.11
FUEL, LUBE, AND ELECTRICITY	.40	.40	.37
MACHINERY AND BUILDING REPAIRS	.35	.37	.38
HIRED LABOR	.83	.87	.85
DHIA FEES	.05	.05	.05
DAIRY SUPPLIES	.19	.19	.19
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	7.45	7.39	8.02
GENERAL FARM OVERHEAD	.49	.57	.57
TAXES AND INSURANCE	.37	.35	.36
INTEREST	1.43	1.55	1.59
TOTAL, FIXED EXPENSES	2.29	2.47	2.52
TOTAL, CASH EXPENSES	9.74	9.86	10.54
RECEIPTS LESS CASH EXPENSES	5.20	4.80	4.14
CAPITAL REPLACEMENT	1.64	1.57	1.58
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.56	3.23	2.56
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ECONOMIC COSTS:			
VARIABLE EXPENSES	7.45	7.39	8.02
GENERAL FARM OVERHEAD	.49	.57	.57
TAXES AND INSURANCE	.37	.35	.36
CAPITAL REPLACEMENT	1.64	1.57	1.58
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.15	.12	.10
OTHER NONLAND CAPITAL	1.10	1.04	.95
LAND	.37	.36	.36
UNPAID LABOR	1.46	1.51	1.46
TOTAL, ECONOMIC COSTS	13.03	12.91	13.40
RESIDUAL TO MANAGEMENT AND RISK	1.91	1.75	1.28
NET RETURNS TO OWNED INPUTS	4.99	4.78	4.15

TABLE 110—MILK PRODUCTION COSTS, PER COW, ALL SIZES, APPALACHIAN, 1981-83

ITEM	1981	1982	1983
	<u>DOLLARS</u>		
CASH RECEIPTS:			
MILK	1,889.95	1,904.53	1,925.80
CULL COWS, CALVES, AND REPLACEMENTS	136.34	129.37	128.30
TOTAL	2,026.29	2,033.90	2,054.10
CASH EXPENSES:			
FEED--			
SILAGE	80.19	71.12	94.64
CONCENTRATES	594.79	560.67	589.71
HAY	90.89	90.96	99.96
PASTURE AND OTHER FORAGES	20.05	20.21	19.43
HAYLAGE	18.71	18.63	21.09
OTHER--			
MILK HAULING	64.16	65.49	65.24
ARTIFICIAL INSEMINATION	14.70	16.07	16.80
VETERINARY AND MEDICINE	21.39	22.79	23.73
LIVESTOCK HAULING	1.34	1.62	1.60
MARKETING	17.37	18.24	18.25
FUEL, LUBE, AND ELECTRICITY	56.14	54.89	51.69
MACHINERY AND BUILDING REPAIRS	41.43	43.51	45.92
HIRED LABOR	149.70	145.69	155.48
DHIA FEES	6.68	7.40	7.73
DAIRY SUPPLIES	33.42	33.05	34.15
DAIRY ASSESSMENT	0	0	65.56
TOTAL, VARIABLE EXPENSES	1,210.96	1,170.34	1,310.98
GENERAL FARM OVERHEAD	48.12	67.95	68.83
TAXES AND INSURANCE	42.77	39.68	43.71
INTEREST	193.92	215.59	221.84
TOTAL, FIXED EXPENSES	284.81	323.22	334.38
TOTAL, CASH EXPENSES	1,495.77	1,493.56	1,645.36
RECEIPTS LESS CASH EXPENSES	530.52	540.34	408.74
CAPITAL REPLACEMENT	200.49	195.66	199.42
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	330.03	344.68	209.32
ECONOMIC COSTS:			
VARIABLE EXPENSES	1,210.96	1,170.34	1,310.98
GENERAL FARM OVERHEAD	48.12	67.95	68.83
TAXES AND INSURANCE	42.77	39.68	43.71
CAPITAL REPLACEMENT	200.49	195.66	199.42
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	24.06	18.09	15.82
OTHER NONLAND CAPITAL	137.67	129.98	124.30
LAND	61.48	60.20	68.30
UNPAID LABOR	157.72	148.47	162.20
TOTAL, ECONOMIC COSTS	1,883.27	1,830.37	1,993.56
RESIDUAL TO MANAGEMENT AND RISK	143.02	203.53	60.54
NET RETURNS TO OWNED INPUTS	523.95	560.27	431.16

TABLE 111—MILK PRODUCTION COSTS, PER CWT, ALL SIZES, APPALACHIAN, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	14.14	13.92	14.10
CULL COWS, CALVES, AND REPLACEMENTS	1.02	.95	.94
TOTAL	15.16	14.87	15.04
=====	=====	=====	=====
CASH EXPENSES:			
FEED--			
SILAGE	.60	.52	.69
CONCENTRATES	4.45	4.10	4.32
HAY	.68	.67	.73
PASTURE AND OTHER FORAGES	.15	.15	.14
HAYLAGE	.14	.14	.15
OTHER--			
MILK HAULING	.48	.48	.48
ARTIFICIAL INSEMINATION	.11	.12	.12
VETERINARY AND MEDICINE	.16	.17	.18
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.13	.13	.13
FUEL, LUBE, AND ELECTRICITY	.42	.40	.38
MACHINERY AND BUILDING REPAIRS	.31	.32	.34
HIRED LABOR	1.12	1.06	1.14
DHIA FEES	.05	.05	.06
DAIRY SUPPLIES	.25	.24	.25
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	9.06	8.56	9.60
GENERAL FARM OVERHEAD	.36	.50	.50
TAXES AND INSURANCE	.32	.29	.32
INTEREST	1.45	1.57	1.63
TOTAL, FIXED EXPENSES	2.13	2.36	2.45
TOTAL, CASH EXPENSES	11.19	10.92	12.05
RECEIPTS LESS CASH EXPENSES	3.97	3.95	2.99
CAPITAL REPLACEMENT	1.50	1.43	1.46
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.47	2.52	1.53
=====	=====	=====	=====
ECONOMIC COSTS:			
VARIABLE EXPENSES	9.06	8.56	9.60
GENERAL FARM OVERHEAD	.36	.50	.50
TAXES AND INSURANCE	.32	.29	.32
CAPITAL REPLACEMENT	1.50	1.43	1.46
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.18	.13	.12
OTHER NONLAND CAPITAL	1.03	.95	.91
LAND	.46	.44	.50
UNPAID LABOR	1.18	1.09	1.19
TOTAL, ECONOMIC COSTS	14.09	13.39	14.60
RESIDUAL TO MANAGEMENT AND RISK	1.07	1.48	.44
NET RETURNS TO OWNED INPUTS	3.92	4.09	3.16

TABLE 112--MILK PRODUCTION COSTS, PER COW, ALL SIZES, CORN BELT, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	1,755.65	1,756.94	1,814.16
CULL COWS, CALVES, AND REPLACEMENTS	153.12	142.27	139.05
TOTAL	1,908.77	1,899.21	1,953.21
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CASH EXPENSES:			
FEED--			
SILAGE	32.44	34.22	44.41
CONCENTRATES	467.14	452.78	517.32
HAY	73.97	73.93	83.81
PASTURE AND OTHER FORAGES	9.08	7.85	7.66
HAYLAGE	31.14	30.66	37.28
OTHER--			
MILK HAULING	62.28	61.80	63.07
ARTIFICIAL INSEMINATION	15.57	16.80	17.54
VETERINARY AND MEDICINE	25.95	27.67	28.63
LIVESTOCK HAULING	1.30	1.84	1.80
MARKETING	12.98	13.21	13.51
FUEL, LUBE, AND ELECTRICITY	70.07	70.07	70.51
MACHINERY AND BUILDING REPAIRS	53.20	57.20	59.99
HIRED LABOR	88.24	85.95	87.63
DHIA FEES	6.49	7.47	7.79
DAIRY SUPPLIES	25.95	25.95	26.80
DAIRY ASSESSMENT	0	0	64.38
TOTAL, VARIABLE EXPENSES	975.80	967.40	1,132.13
GENERAL FARM OVERHEAD	53.20	65.96	68.27
TAXES AND INSURANCE	46.72	47.30	56.34
INTEREST	182.67	201.32	210.95
TOTAL, FIXED EXPENSES	282.59	314.58	335.56
TOTAL, CASH EXPENSES	1,258.39	1,281.98	1,467.69
RECEIPTS LESS CASH EXPENSES	650.38	617.23	485.52
CAPITAL REPLACEMENT	246.54	236.50	248.15
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	403.84	380.73	237.37
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ECONOMIC COSTS:			
VARIABLE EXPENSES	975.80	967.40	1,132.13
GENERAL FARM OVERHEAD	53.20	65.96	68.27
TAXES AND INSURANCE	46.72	47.30	56.34
CAPITAL REPLACEMENT	246.54	236.50	248.15
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	20.76	16.83	15.01
OTHER NONLAND CAPITAL	160.90	153.73	146.20
LAND	79.15	77.52	92.55
UNPAID LABOR	260.82	259.62	264.98
TOTAL, ECONOMIC COSTS	1,843.89	1,824.86	2,023.63
RESIDUAL TO MANAGEMENT AND RISK	64.88	74.35	-70.42
NET RETURNS TO OWNED INPUTS	586.51	582.05	448.32

TABLE 113--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, CORN BELT, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	13.53	13.37	13.53
CULL COWS, CALVES, AND REPLACEMENTS	1.18	1.08	1.04
TOTAL	14.71	14.45	14.57
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CASH EXPENSES:			
FEED--			
SILAGE	.25	.26	.33
CONCENTRATES	3.60	3.45	3.86
HAY	.57	.56	.62
PASTURE AND OTHER FORAGES	.07	.06	.06
HAYLAGE	.24	.23	.28
OTHER--			
MILK HAULING	.48	.47	.47
ARTIFICIAL INSEMINATION	.12	.13	.13
VETERINARY AND MEDICINE	.20	.21	.21
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.10	.10	.10
FUEL, LUBE, AND ELECTRICITY	.54	.53	.53
MACHINERY AND BUILDING REPAIRS	.41	.44	.45
HIRED LABOR	.68	.65	.65
DHIA FEES	.05	.06	.06
DAIRY SUPPLIES	.20	.20	.20
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	7.52	7.36	8.44
GENERAL FARM OVERHEAD	.41	.50	.51
TAXES AND INSURANCE	.36	.36	.42
INTEREST	1.41	1.53	1.57
TOTAL, FIXED EXPENSES	2.18	2.39	2.50
TOTAL, CASH EXPENSES	9.70	9.75	10.94
RECEIPTS LESS CASH EXPENSES	5.01	4.70	3.63
CAPITAL REPLACEMENT	1.90	1.80	1.85
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.11	2.90	1.78
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ECONOMIC COSTS:			
VARIABLE EXPENSES	7.52	7.36	8.44
GENERAL FARM OVERHEAD	.41	.50	.51
TAXES AND INSURANCE	.36	.36	.42
CAPITAL REPLACEMENT	1.90	1.80	1.85
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.16	.13	.11
OTHER NONLAND CAPITAL	1.24	1.17	1.09
LAND	.61	.59	.69
UNPAID LABOR	2.01	1.98	1.98
TOTAL, ECONOMIC COSTS	14.21	13.89	15.09
RESIDUAL TO MANAGEMENT AND RISK	.50	.56	-.52
NET RETURNS TO OWNED INPUTS	4.52	4.43	3.35

TABLE 114--MILK PRODUCTION COSTS, PER COW, ALL SIZES, NORTHEAST, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	1,945.56	1,947.16	1,986.51
CULL COWS, CALVES, AND REPLACEMENTS	166.52	153.73	147.76
TOTAL	2,112.08	2,100.89	2,134.27
CASH EXPENSES:			
FEED--			
SILAGE	54.12	54.67	63.33
CONCENTRATES	503.74	476.30	493.90
HAY	72.16	88.60	73.38
PASTURE AND OTHER FORAGES	4.16	4.22	3.92
HAYLAGE	31.92	29.06	32.26
OTHER--			
MILK HAULING	52.73	52.52	53.56
ARTIFICIAL INSEMINATION	16.65	18.13	18.95
VETERINARY AND MEDICINE	31.92	32.77	34.13
LIVESTOCK HAULING	2.77	2.39	2.36
MARKETING	15.26	15.71	16.07
FUEL, LUBE, AND ELECTRICITY	56.90	56.03	54.66
MACHINERY AND BUILDING REPAIRS	47.18	49.15	51.72
HIRED LABOR	134.61	146.80	150.58
DHIA FEES	6.94	7.43	7.78
DAIRY SUPPLIES	24.98	25.08	25.95
DAIRY ASSESSMENT	0	0	68.82
TOTAL, VARIABLE EXPENSES	1,056.04	1,058.86	1,151.37
GENERAL FARM OVERHEAD	83.26	88.65	90.42
TAXES AND INSURANCE	47.18	44.85	50.18
INTEREST	202.60	222.69	230.50
TOTAL, FIXED EXPENSES	333.04	356.19	371.10
TOTAL, CASH EXPENSES	1,389.08	1,415.05	1,522.47
RECEIPTS LESS CASH EXPENSES	723.00	685.84	611.80
CAPITAL REPLACEMENT	230.36	221.47	230.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	492.64	464.37	380.98
ECONOMIC COSTS:			
VARIABLE EXPENSES	1,056.04	1,058.86	1,151.37
GENERAL FARM OVERHEAD	83.26	88.65	90.42
TAXES AND INSURANCE	47.18	44.85	50.18
CAPITAL REPLACEMENT	230.36	221.47	230.82
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	22.20	17.58	14.80
OTHER NONLAND CAPITAL	155.42	149.98	140.50
LAND	38.86	37.85	38.71
UNPAID LABOR	206.77	223.56	226.48
TOTAL, ECONOMIC COSTS	1,840.09	1,842.80	1,943.28
RESIDUAL TO MANAGEMENT AND RISK	271.99	258.09	190.99
NET RETURNS TO OWNED INPUTS	695.24	687.06	611.48

TABLE 115--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, NORTHEAST, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	14.02	13.89	13.86
CULL COWS, CALVES, AND REPLACEMENTS	1.20	1.10	1.03
TOTAL	15.22	14.99	14.89
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CASH EXPENSES:			
FEED--			
SILAGE	.39	.39	.44
CONCENTRATES	3.63	3.40	3.45
HAY	.52	.63	.51
PASTURE AND OTHER FORAGES	.03	.03	.03
HAYLAGE	.23	.21	.23
OTHER--			
MILK HAULING	.38	.38	.37
ARTIFICIAL INSEMINATION	.12	.13	.13
VETERINARY AND MEDICINE	.23	.23	.24
LIVESTOCK HAULING	.02	.02	.02
MARKETING	.11	.11	.11
FUEL, LUBE, AND ELECTRICITY	.41	.40	.38
MACHINERY AND BUILDING REPAIRS	.34	.35	.36
HIRED LABOR	.97	1.05	1.05
DHIA FEES	.05	.05	.05
DAIRY SUPPLIES	.18	.18	.18
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	7.61	7.56	8.03
GENERAL FARM OVERHEAD	.60	.63	.63
TAXES AND INSURANCE	.34	.32	.35
INTEREST	1.46	1.59	1.61
TOTAL, FIXED EXPENSES	2.40	2.54	2.59
TOTAL, CASH EXPENSES	10.01	10.10	10.62
RECEIPTS LESS CASH EXPENSES	5.21	4.89	4.27
CAPITAL REPLACEMENT	1.66	1.58	1.61
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.55	3.31	2.66
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ECONOMIC COSTS:			
VARIABLE EXPENSES	7.61	7.56	8.03
GENERAL FARM OVERHEAD	.60	.63	.63
TAXES AND INSURANCE	.34	.32	.35
CAPITAL REPLACEMENT	1.66	1.58	1.61
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.16	.13	.11
OTHER NONLAND CAPITAL	1.12	1.07	.98
LAND	.28	.27	.27
UNPAID LABOR	1.49	1.59	1.58
TOTAL, ECONOMIC COSTS	13.26	13.15	13.56
RESIDUAL TO MANAGEMENT AND RISK	1.96	1.84	1.33
NET RETURNS TO OWNED INPUTS	5.01	4.90	4.27

TABLE 116--MILK PRODUCTION COSTS, PER COW, ALL SIZES, PACIFIC, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	2,126.81	2,103.61	2,128.19
CULL COWS, CALVES, AND REPLACEMENTS	146.95	136.99	136.76
TOTAL	2,273.76	2,240.60	2,264.95
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CASH EXPENSES:			
FEED--			
SILAGE	23.70	25.16	26.01
CONCENTRATES	567.26	529.74	564.06
HAY	342.88	351.21	390.40
PASTURE AND OTHER FORAGES	4.74	4.70	4.69
HAYLAGE	18.96	19.32	19.57
OTHER--			
MILK HAULING	45.82	47.28	48.27
ARTIFICIAL INSEMINATION	17.38	17.54	18.34
VETERINARY AND MEDICINE	22.12	22.26	23.18
LIVESTOCK HAULING	1.58	2.23	2.20
MARKETING	23.70	25.56	25.88
FUEL, LUBE, AND ELECTRICITY	37.92	36.91	35.24
MACHINERY AND BUILDING REPAIRS	61.63	64.25	68.21
HIRED LABOR	142.21	151.21	155.88
DHIA FEES	7.90	8.66	9.06
DAIRY SUPPLIES	28.44	27.67	28.37
DAIRY ASSESSMENT	0	0	77.51
TOTAL, VARIABLE EXPENSES	1,346.24	1,333.70	1,496.87
GENERAL FARM OVERHEAD	55.31	52.11	52.70
TAXES AND INSURANCE	25.28	23.86	25.84
INTEREST	217.60	237.50	244.61
TOTAL, FIXED EXPENSES	298.19	313.47	323.15
TOTAL, CASH EXPENSES	1,644.43	1,647.17	1,820.02
RECEIPTS LESS CASH EXPENSES	629.33	593.43	444.93
CAPITAL REPLACEMENT	127.99	124.05	124.34
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	501.34	469.38	320.59
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ECONOMIC COSTS:			
VARIABLE EXPENSES	1,346.24	1,333.70	1,496.87
GENERAL FARM OVERHEAD	55.31	52.11	52.70
TAXES AND INSURANCE	25.28	23.86	25.84
CAPITAL REPLACEMENT	127.99	124.05	124.34
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	25.28	19.32	16.95
OTHER NONLAND CAPITAL	109.03	104.97	108.19
LAND	11.06	11.13	9.69
UNPAID LABOR	56.88	60.77	64.50
TOTAL, ECONOMIC COSTS	1,757.07	1,729.91	1,899.08
RESIDUAL TO MANAGEMENT AND RISK	516.69	510.69	365.87
NET RETURNS TO OWNED INPUTS	718.94	706.88	565.20

TABLE 117--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, PACIFIC, 1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	13.46	13.23	13.18
CULL COWS, CALVES, AND REPLACEMENTS	.93	.86	.85
TOTAL	14.39	14.09	14.03
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CASH EXPENSES:			
FEED--			
SILAGE	.15	.16	.16
CONCENTRATES	3.59	3.33	3.49
HAY	2.17	2.21	2.42
PASTURE AND OTHER FORAGES	.03	.03	.03
HAYLAGE	.12	.12	.12
OTHER--			
MILK HAULING	.29	.30	.30
ARTIFICIAL INSEMINATION	.11	.11	.11
VETERINARY AND MEDICINE	.14	.14	.14
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.15	.16	.16
FUEL, LUBE, AND ELECTRICITY	.24	.23	.22
MACHINERY AND BUILDING REPAIRS	.39	.41	.42
HIRED LABOR	.90	.95	.97
DHIA FEES	.05	.05	.06
DAIRY SUPPLIES	.18	.18	.18
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	8.52	8.39	9.27
GENERAL FARM OVERHEAD	.35	.33	.33
TAXES AND INSURANCE	.16	.15	.16
INTEREST	1.38	1.49	1.51
TOTAL, FIXED EXPENSES	1.89	1.97	2.00
TOTAL, CASH EXPENSES	10.41	10.36	11.27
RECEIPTS LESS CASH EXPENSES	3.98	3.73	2.76
CAPITAL REPLACEMENT	.81	.78	.77
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	3.17	2.95	1.99
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ECONOMIC COSTS:			
VARIABLE EXPENSES	8.52	8.39	9.27
GENERAL FARM OVERHEAD	.35	.33	.33
TAXES AND INSURANCE	.16	.15	.16
CAPITAL REPLACEMENT	.81	.78	.77
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.16	.12	.10
OTHER NONLAND CAPITAL	.69	.66	.67
LAND	.07	.07	.06
UNPAID LABOR	.36	.38	.40
TOTAL, ECONOMIC COSTS	11.12	10.88	11.76
RESIDUAL TO MANAGEMENT AND RISK	3.27	3.21	2.27
NET RETURNS TO OWNED INPUTS	4.55	4.44	3.50

TABLE 118—MILK PRODUCTION COSTS, PER COW, ALL SIZES, SOUTHERN PLAINS,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	1,934.36	1,937.40	2,006.41
CULL COWS, CALVES, AND REPLACEMENTS	135.93	123.24	125.68
TOTAL	2,070.29	2,060.64	2,132.09
CASH EXPENSES:			
FEED--			
SILAGE	6.54	6.65	7.86
CONCENTRATES	673.10	616.00	600.62
HAY	224.80	222.98	242.18
PASTURE AND OTHER FORAGES	5.23	5.04	4.91
HAYLAGE	13.07	13.01	12.79
OTHER--			
MILK HAULING	65.35	54.41	56.54
ARTIFICIAL INSEMINATION	10.46	10.84	11.33
VETERINARY AND MEDICINE	18.30	18.38	19.14
LIVESTOCK HAULING	1.31	.98	.97
MARKETING	24.83	25.21	26.20
FUEL, LUBE, AND ELECTRICITY	40.52	40.31	38.24
MACHINERY AND BUILDING REPAIRS	22.22	24.18	25.59
HIRED LABOR	150.30	160.85	156.09
DHIA FEES	2.61	2.02	2.11
DAIRY SUPPLIES	39.21	39.65	40.98
DAIRY ASSESSMENT	0	0	66.19
TOTAL, VARIABLE EXPENSES	1,297.85	1,240.51	1,311.74
GENERAL FARM OVERHEAD	47.05	50.05	51.99
TAXES AND INSURANCE	35.29	34.50	33.10
INTEREST	198.13	218.43	230.27
TOTAL, FIXED EXPENSES	280.47	302.98	315.36
TOTAL, CASH EXPENSES	1,578.32	1,543.49	1,627.10
RECEIPTS LESS CASH EXPENSES	491.97	517.15	504.99
CAPITAL REPLACEMENT	162.07	163.22	161.34
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	329.90	353.93	343.65
ECONOMIC COSTS:			
VARIABLE EXPENSES	1,297.85	1,240.51	1,311.74
GENERAL FARM OVERHEAD	47.05	50.05	51.99
TAXES AND INSURANCE	35.29	34.50	33.10
CAPITAL REPLACEMENT	162.07	163.22	161.34
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	23.53	18.57	15.29
OTHER NONLAND CAPITAL	91.49	94.22	88.26
LAND	26.14	31.85	28.96
UNPAID LABOR	98.02	105.39	101.96
TOTAL, ECONOMIC COSTS	1,781.44	1,738.31	1,792.64
RESIDUAL TO MANAGEMENT AND RISK	288.85	322.33	339.45
NET RETURNS TO OWNED INPUTS	528.03	572.36	573.92

TABLE 119—MILK PRODUCTION COSTS, PER CWT, ALL SIZES, SOUTHERN PLAINS,
1981-83

ITEM	1981	1982	1983
	<u>DOLLARS</u>		
CASH RECEIPTS:			
MILK	14.80	14.60	14.55
CULL COWS, CALVES, AND REPLACEMENTS	1.04	.93	.91
TOTAL	15.84	15.53	15.46
CASH EXPENSES:			
FEED--			
SILAGE	.05	.05	.06
CONCENTRATES	5.15	4.64	4.35
HAY	1.72	1.68	1.75
PASTURE AND OTHER FORAGES	.04	.04	.04
HAYLAGE	.10	.10	.09
OTHER--			
MILK HAULING	.50	.41	.41
ARTIFICIAL INSEMINATION	.08	.08	.08
VETERINARY AND MEDICINE	.14	.14	.14
LIVESTOCK HAULING	.01	.01	.01
MARKETING	.19	.19	.19
FUEL, LUBE, AND ELECTRICITY	.31	.30	.28
MACHINERY AND BUILDING REPAIRS	.17	.18	.18
HIRED LABOR	1.15	1.21	1.13
DHIA FEES	.02	.02	.02
DAIRY SUPPLIES	.30	.30	.30
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	9.93	9.35	9.51
GENERAL FARM OVERHEAD	.36	.38	.38
TAXES AND INSURANCE	.27	.26	.24
INTEREST	1.52	1.64	1.67
TOTAL, FIXED EXPENSES	2.15	2.28	2.29
TOTAL, CASH EXPENSES	12.08	11.63	11.80
RECEIPTS LESS CASH EXPENSES	3.76	3.90	3.66
CAPITAL REPLACEMENT	1.24	1.23	1.17
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	2.52	2.67	2.49
ECONOMIC COSTS:			
VARIABLE EXPENSES	9.93	9.35	9.51
GENERAL FARM OVERHEAD	.36	.38	.38
TAXES AND INSURANCE	.27	.26	.24
CAPITAL REPLACEMENT	1.24	1.23	1.17
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.18	.14	.11
OTHER NONLAND CAPITAL	.70	.71	.64
LAND	.20	.24	.21
UNPAID LABOR	.75	.79	.74
TOTAL, ECONOMIC COSTS	13.63	13.10	13.00
RESIDUAL TO MANAGEMENT AND RISK	2.21	2.43	2.46
NET RETURNS TO OWNED INPUTS	4.04	4.31	4.16

TABLE 120--MILK PRODUCTION COSTS, PER COW, ALL SIZES, UPPER MIDWEST,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	1,735.80	1,727.64	1,804.02
CULL COWS, CALVES, AND REPLACEMENTS	196.48	179.23	175.46
TOTAL	1,932.28	1,906.87	1,979.48
CASH EXPENSES:			
FEED--			
SILAGE	42.94	45.19	46.61
CONCENTRATES	361.73	360.11	380.10
HAY	71.57	72.07	70.66
PASTURE AND OTHER FORAGES	2.60	2.32	2.18
HAYLAGE	40.34	37.55	37.82
OTHER--			
MILK HAULING	33.83	33.06	34.22
ARTIFICIAL INSEMINATION	14.31	14.42	15.09
VETERINARY AND MEDICINE	28.63	29.28	30.49
LIVESTOCK HAULING	3.90	4.17	4.10
MARKETING	7.81	8.37	8.66
FUEL, LUBE, AND ELECTRICITY	54.65	55.82	53.42
MACHINERY AND BUILDING REPAIRS	48.14	51.00	53.43
Hired LABOR	81.98	87.07	82.51
DHIA FEES	6.51	6.63	6.93
DAIRY SUPPLIES	22.12	22.10	22.84
DAIRY ASSESSMENT	0	0	64.88
TOTAL, VARIABLE EXPENSES	821.06	829.16	913.94
GENERAL FARM OVERHEAD	67.66	90.14	93.82
TAXES AND INSURANCE	52.05	52.40	55.42
INTEREST	184.92	202.13	213.78
TOTAL, FIXED EXPENSES	304.63	344.67	363.02
TOTAL, CASH EXPENSES	1,125.69	1,173.83	1,276.96
RECEIPTS LESS CASH EXPENSES	806.59	733.04	702.52
CAPITAL REPLACEMENT	248.53	243.65	246.01
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	558.06	489.39	456.51
ECONOMIC COSTS:			
VARIABLE EXPENSES	821.06	829.16	913.94
GENERAL FARM OVERHEAD	67.66	90.14	93.82
TAXES AND INSURANCE	52.05	52.40	55.42
CAPITAL REPLACEMENT	248.53	243.65	246.01
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	18.22	14.87	12.41
OTHER NONLAND CAPITAL	158.74	155.88	144.63
LAND	57.25	56.33	55.42
UNPAID LABOR	234.22	257.69	242.93
TOTAL, ECONOMIC COSTS	1,657.73	1,700.12	1,764.58
RESIDUAL TO MANAGEMENT AND RISK	274.55	206.75	214.90
NET RETURNS TO OWNED INPUTS	742.98	691.52	670.29

TABLE 121--MILK PRODUCTION COSTS, PER CWT, ALL SIZES, UPPER MIDWEST,
1981-83

ITEM	1981	1982	1983
<u>DOLLARS</u>			
CASH RECEIPTS:			
MILK	13.34	13.19	13.34
CULL COWS, CALVES, AND REPLACEMENTS	1.51	1.37	1.30
TOTAL	14.85	14.56	14.64
CASH EXPENSES:			
FEED--			
SILAGE	.33	.34	.34
CONCENTRATES	2.78	2.75	2.81
HAY	.55	.55	.52
PASTURE AND OTHER FORAGES	.02	.02	.02
HAYLAGE	.31	.29	.28
OTHER--			
MILK HAULING	.26	.25	.25
ARTIFICIAL INSEMINATION	.11	.11	.11
VETERINARY AND MEDICINE	.22	.22	.23
LIVESTOCK HAULING	.03	.03	.03
MARKETING	.06	.06	.06
FUEL, LUBE, AND ELECTRICITY	.42	.43	.40
MACHINERY AND BUILDING REPAIRS	.37	.39	.40
HIRED LABOR	.63	.67	.61
DHIA FEES	.05	.05	.05
DAIRY SUPPLIES	.17	.17	.17
DAIRY ASSESSMENT	0	0	.48
TOTAL, VARIABLE EXPENSES	6.31	6.33	6.76
GENERAL FARM OVERHEAD	.52	.69	.69
TAXES AND INSURANCE	.40	.40	.41
INTEREST	1.42	1.54	1.58
TOTAL, FIXED EXPENSES	2.34	2.63	2.68
TOTAL, CASH EXPENSES	8.65	8.96	9.44
RECEIPTS LESS CASH EXPENSES	6.20	5.60	5.20
CAPITAL REPLACEMENT	1.91	1.86	1.82
RECEIPTS LESS CASH EXPENSES AND REPLACEMENT	4.29	3.74	3.38
ECONOMIC COSTS:			
VARIABLE EXPENSES	6.31	6.33	6.76
GENERAL FARM OVERHEAD	.52	.69	.69
TAXES AND INSURANCE	.40	.40	.41
CAPITAL REPLACEMENT	1.91	1.86	1.82
ALLOCATED RETURNS TO OWNED INPUTS:			
OPERATING CAPITAL	.14	.11	.09
OTHER NONLAND CAPITAL	1.22	1.19	1.07
LAND	.44	.43	.41
UNPAID LABOR	1.80	1.97	1.80
TOTAL, ECONOMIC COSTS	12.74	12.98	13.05
RESIDUAL TO MANAGEMENT AND RISK	2.11	1.58	1.59
NET RETURNS TO OWNED INPUTS	5.71	5.28	4.96

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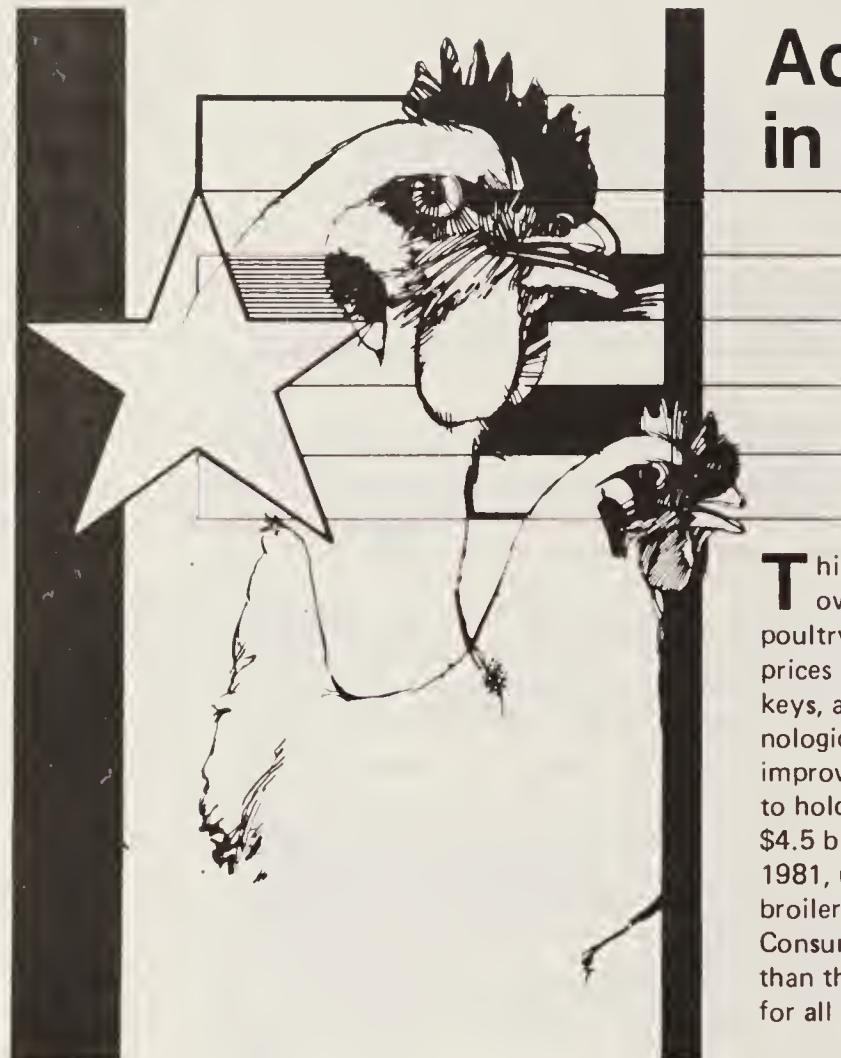
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